

SEQUENCE LISTING

<110> Sun, Yongming
 Recipon, Herve
 Salceda, Susana
 Liu, Chenghua

<120> Compositions and Methods Relating to Ovary Specific
 Genes and Proteins

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<150> 60/246,640
 <151> 2000-11-08

<160> 238

<170> PatentIn Ver. 2.1

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<213> Homo sapiens

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acacaacctg taggtcttat ctctgggggc tgggaaacag aaccttaatg ttacaggtag 180
aaaagcaaac agagtgatta gttccccatt ttctggtagt gaacaactga ctttttttca 240
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<213> Homo sapiens

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caaaatgttg ttgggagacc ccatccaatt taatcgggtg ttatttaatt atactactat 240
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tctgcccttt gcaaattcat ggatgctaaa caaatgtgg agaaaacata ttgccctgct 180
ctatctggca gcttccaaga ttcaatgata tattgggaaa ggagtaactc acttcccctt 240
ccagcaacat gtaagcccta gactcctgcc aggccaaaaa tatccccgat taaacaaatt 300
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 <213> Homo sapiens

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<400> 7
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gggaaaggag taactcactt ccccttccag caacatgtaa gccctagact cctgccaggc 420
caaaaatatc cccgattaaa caaattatgt agcagaaagt ctttgaatta ataaacaaa 480
tttgaataat t 491

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<210> 8
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 <212> DNA
 <213> Homo sapiens

<400> 8

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<210> 9
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<213> Homo sapiens

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gttaagacca gttacttgtc aatcttaact tttagtcact aaggggaatt ttcaagacaa 180
aactctaatt gagctactta cctaggaatg aggctcacgc tgaacactgc tgtctaccat 240
ctatgaagca ggaaaaaact caaactcact ttctctgttg gaagggagca gaaactccag 300
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aatgtgggga gagcaatgat tctctgaagg gacctccag acctcagcaa attgtattat 480
tggtttgagc aataaagata ggccaagctg gtaccaagca tggatggatt tgtcaaagat 540
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<212> DNA
<213> Homo sapiens

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tgaagcagtt ttattttctga agtgatacta aagaataggg atgcgtgtcc aggctagtta 180
cagttaaatt taggaataag gcacagtaat aaagatacta tctttagact tgaaaattat 240
aaatccttag ttgttattcc ttatcagttt ataaagttaa caatgaatgt acagactaca 300
agctatcaaa tgtactgtag atgaaaaggg caataaacac tagtcagagt tagaggtaga 360
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<212> DNA
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<400> 11

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gaggctaatac tttaaaggca gtcattgatt gtatttttaa ttacaattta caaccccatg 180
gtaatgaaca cataggctaa acaaataata actcaattaa aataacatgc aatgatactt 240
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tagatgacta tttaaccttc ttttatatg tatagatata gcgttataat tttccacta 360
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ttccataaaa 490

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<210> 13
 <211> 64
 <212> DNA
 <213> Homo sapiens

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gcac 64

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<210> 14
 <211> 921
 <212> DNA
 <213> Homo sapiens

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ttttttccac atatattttt acttgatatcc ttgttagttc ctctaggaac ttacaatgta 480
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<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<213> Homo sapiens

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<213> Homo sapiens

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cccctcttag caggagtgcc ccattctcatg ggctcccgac gacgacccag aggggtgatg 1680
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<213> Homo sapiens

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<400> 20

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agtgccttcc tcacagcaat gctgtgaagt acttatcctc cttgttcttc tgaggaaaca 180
aggctgacag gcctgagatc acagagccag taaatggtag agtcaggaat tgaacctgag 240
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taccctgaga tactcagttc atttttagttc ctctaaagtt ttgttattaa aaagtactg 360
taaattgcatt gtgtccagag cattatagca tactttttaa aattattcac ttcttaagaa 420
ttctactcat cccaccctca tcttttgaaa attaacactt tacctacatg acttaaaatc 480
atctgaagac ttttaataag ttgctgagtt tcatgtttca aaacctgtta tctactactg 540
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actaagcaca ggttttaagt ttgtaagcgt ggatagggtg ggagcaagct ctctagtggg 660
aatggatttt aaacctaaagt agtaagtga aaccatgcag aggcgtgctt gtcgctgtga 720
gactgtgctg tatgtgtcta gactggtgga gcagtacaga gaacagagct ggatgactat 780
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gactattttt 1150

<210> 21
 <211> 226
 <212> DNA
 <213> Homo sapiens

<400> 21
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 gatatacaat tatggcctct gagtagcctt tgaatcatct ttagattcta aacttaattc 120
 tgaaaatatg ttttaccata gtataaaata gtttttatgt ttatattaga aaaatgatgt 180
 tttaaatttat ttctaagaat tacttttaggc cagggtgcaat ggttca 226

<210> 22
 <211> 270
 <212> DNA
 <213> Homo sapiens

<400> 22
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 tgaggaactc tcttagagcg ggggactccc tgctcctaca gccttaacca atgccagcg 180
 cttggaaagt ggaggactcg gggattcggg agcgtttcag gcctggggaa atggaagggt 240
 cggggaccta ggtgaaagggt tatttgccag 270

<210> 23
 <211> 245
 <212> DNA
 <213> Homo sapiens

<400> 23
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 ttgacttgat ttccaagaag caacagagtt aaaactgtta tttctaggtg agtggccttc 180
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 ttttt 245

<210> 24
 <211> 460
 <212> DNA
 <213> Homo sapiens

<400> 24
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 acatgcaaaa tgtacggcct ggtttcata agcataaata gtataaatgc caacaataag 120
 aatgtcttct aagcagctaa atcttgtaag tttagttgga attgagacca gctatttggg 180
 taagcgaatt agagtcttag tattgtgaagt gggatatgtt atgtggcaca gggttgccaa 240

<210> 28
 <211> 338
 <212> DNA
 <213> Homo sapiens

<400> 28
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 atctcttttaa aattctgtgt tatttttaaaa aacaaataat agatacagat gtctgagtat 120
 ttttaagacat tttggggatt ctagtaatta ttagtgccat taaccacaaa gacaaaggaa 180
 ggggtctgtc cttttttaa acagtaatct cactgtagag ttcaagccat gagttcacia 240
 gtatcttaat attgtacnaa aaccttttct ttttcattct agcctcttaa cccctaagca 300
 aaacaaatga aaaaaatgta cttaaaaact taatgttt 338

<210> 29
 <211> 622
 <212> DNA
 <213> Homo sapiens

<400> 29
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 gtaagagaga gggaagatgc cctcagctcc caccaaggag cataaataaa aagagaattg 120
 acccccacgc acccttcaat agcccaccag agttgccacc aaacagtgtg aaaacgtgtg 180
 gttttgacta ttctgatgaa aataatggat gttctgtgga gatttgtaga gcacacacac 240
 atatgatttc taaatcaa atcagttgcaa ctgttcccat cagaaagacc catcaagccc 300
 ataaaagaga tcccttcata caaagatctc tttgcatccc aatttccacc cattctacat 360
 gcattttcaa acccatttcc tgatttcact gtcattagct agaaagcagg gggctattag 420
 cctggattgt aaggcatcca tttctccttt ttttgtttca ttagccatgt aggaagatat 480
 ttttctttta tgggtgatgg catctgtttt taaaaatgga taaactcttc aaaacatagt 540
 ttctgattct ggtagcact agatgagcag ctgtaaaata ataataatag tttgaggggt 600
 tgagaagagc tttctttatt tt 622

<210> 30
 <211> 518
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (260)
 <223> a, c, g or t

<220>
 <221> unsure
 <222> (262)

<223> a, c, g or t

<220>

<221> unsure

<222> (333)

<223> a, c, g or t

<220>

<221> unsure

<222> (337)

<223> a, c, g or t

<220>

<221> unsure

<222> (343)

<223> a, c, g or t

<220>

<221> unsure

<222> (354)

<223> a, c, g or t

<220>

<221> unsure

<222> (371)

<223> a, c, g or t

<220>

<221> unsure

<222> (376)

<223> a, c, g or t

<220>

<221> unsure

<222> (380)

<223> a, c, g or t

<220>

<221> unsure

<222> (470)

<223> a, c, g or t

<220>

<221> unsure

<222> (304)

<223> a, c, g or t

<220>

<221> unsure
 <222> (310)
 <223> a, c, g or t

<400> 30
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 ccagcagctg agctcccgga gtgtcaagtt gccggagggt ctgtgcctga gcaagcagag 180
 aaggaaactt aagcctctaa tgaaaaggcc tcctgttctc ttgcaggaga agcccccaga 240
 gggtaaatggg gcagtggccn antggcctgt ggtgacccca aggaggggga ggggccaggg 300
 ccanctgggn cctcagaata ttgttcctgt gtnttcnttc gangcgggtc tggncctgct 360
 ccgcagcctg ntgggntcan gactgaacag tctcctctca gcctcatggg cggttgtctc 420
 tgggcacagg ctactcttaa cctgcctcc ttaacccac acagggcagn ctctgtctgc 480
 taaaaatatt tctggggaca cggctctaaa aatgaccc 518

<210> 31
 <211> 556
 <212> DNA
 <213> Homo sapiens

<400> 31
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 ccagcagctg agctcccgga gtgtcaagtt gccggagggt tctgtgcctg agcaagcaga 180
 gaaggaaact taagcctcta atgaaaaggc ctctgttctt cttgcaggag aagccccag 240
 aggtaaatgg ggcagtggcc tagtggcctg tggtagcccc aaggaggggg aggggccagg 300
 gccatctggg tcctcagaat attgttctgt tgtcttcttt cgacgcggt ctggccctgc 360
 tccgcagcct ggtgggctca ggactgaaca gtctcctctc agcctcatgg gcggttgtct 420
 ctgggcacag gctactctta acctccctc cttaacccca cacagggcac gccctcctgc 480
 tgtacaaat atttctgggg acacggctct aaaaatgacc ctgccttcca ttcactggac 540
 agtgaacaca agaattg 556

<210> 32
 <211> 330
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (151)..(176)
 <223> a, c, g or t

<220>
 <221> unsure
 <222> (247)..(273)
 <223> a, c, g or t

<220>
 <221> unsure
 <222> (311)
 <223> a, c, g or t

<400> 32
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 tagttttata ttatatagcc cactgacatg nnnnnnnnnn nnnnnnnnnn nnnnnntgac 180
 ttggccagag ccttcagttt cttatctctg gtaagaggta atgtgtctct ccctagggca 240
 aggctgnnnn nnnnnnnnnn nnnnnnnnnn nnnngatgtgt gagagaagca gggagagtaa 300
 gaatcaagac naaactgcag tcttttatac 330

<210> 33
 <211> 431
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (420)
 <223> a, c, g or t

<400> 33
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 atgaaagatg aggaagagag aagtcccagt tgggtaagag gaagttttta aggaccacca 120
 agaaaatggg gacactctta ttagataacc tagaaattag acaaggatga gatgttatct 180
 ggatattcaa atgaaaatac cctctattca gctatagtcg ggctactggg gttttaaggg 240
 agaatttcag atttgtggaa ctcagagagt cctttgcatt tcaaagaagt gataattgag 300
 aagctgtgtg acaactaagg ttgtactaga agaagcttag acgtgagagc aggaagaatt 360
 catggacagt gctaagttag gacatatatg ttacacagat gacaccagtc tggatgttgn 420
 agcccagaca c 431

<210> 34
 <211> 275
 <212> DNA
 <213> Homo sapiens

<400> 34
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 taaagataat tgggtacgct actcctgagg gaaaccagca ttcaaaatgc atcccccca 120
 tagtttttat tatttgtgag agaatgtctc attaataatt tcagagcatt ttggatttca 180
 aaatatattgc cttagacctt cttgcctcct cttctcttgt agagccatat gggtcctttg 240
 tactcagaaa attgaaaatg agccagggtg cagtg 275

<210> 35
 <211> 497
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (486)
 <223> a, c, g or t

<400> 35
 agtgatttca ttatctccaa tgtgtatggc ttgatagaaa tagattccat tatgtagcac 60
 cttaaatcca gataaaacat aaggaatttc tattccatgt ttgtatgata aatgttaata 120
 atctaagaaa atctaaaaag aagctacttc ctctattaca gtatgaaata aatagtctga 180
 atgatttggt ttgggggggtg gaatggaaag gtataagact gaggaggggtg cctgtgggaa 240
 cagtgatagg aatcctttct taagggttgg gttttacata cgtcttttta aatagatgat 300
 atcattaata aattatctgt gggcatcatg aaaaaagtgt ataacgtaca actttatgag 360
 cttgacagtt ggtgaaaact tttctgttta aaattttatt tggccctccc caaaagaaat 420
 gggtatttat gagtattagg atagttccag cagtaatgcc tcaaaagaac caggaggtat 480
 agtgtngtct aaaatgt 497

<210> 36
 <211> 1796
 <212> DNA
 <213> Homo sapiens

<400> 36
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 tacaaattgt gtatggcttc tttccctgca acagcagagt tgagtgttgc aacagaaacc 120
 tatggcctgc agagttaaaa atatctaccc tttggccttt tataaaaaaa gtttactgat 180
 tcctgggtgag tatattaaaa agttaggaaa acctaaatct tccagagtgg agaattagaa 240
 agtaagacgt gttgtatata agacagacag tttgtgtgtg cgtttattta taaatatatt 300
 attctgaaat aatgttgtcg acatatgttg caggctctta aaattggtca atatatagt 360
 ttaatcaaaa aatggcaaat tgtaaaatgt agacagaatg tgattgtgta ttttgtgcat 420
 acaccaacag aaaagggtgc taggaaacct gtggaccaac atactaagtg tggctctttt 480
 gatgggtgta tcatggatgt ttaaaaatct tcttggtttt ctgtagattc tgactttcct 540
 gtaatgagta tgaataagta tgtatttctt gagaaatgtg aaaataactt tatcttccca 600
 gatttctcat aattgaaaat gttggaataa atggctcttg gacagatctt tccattgaga 660
 agggcggaag ggaaacctg gggattcagc tgggtttctg ttgcatttct ggtaacacac 720
 agttgtgaaa agccagtgtt ggccattccc caggacagtc tggggtagag gaggtcagga 780
 tttaactact tgagggtccg gggaacagat gtggccacag tccttctctga ctactgttt 840
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 gatttagttt tctgccagg attatctgtt atgttgacat tctgaaattc ccataacgtt 960
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 ccattatgta gcaccttaaa tccagataaa acataaggaa tttctattcc atgtttgtat 1080
 gatcaatgtt aataatctaa gaaaatctaa aaagaagcta ctctctctat tacagtatga 1140


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aataaatatg ctgaatgatt tgttttgggg ggtggaatgg aaaggtataa gactgaggag 1200
ggtgcctgtg ggaacagtga taggaatcct ttcttaaggg ttgggtttta catacgtctt 1260
ttaaaataga tgatatcatt aataaattat ctgtgggcat catgaaaaaa gtgtataacg 1320
tacaacttta tgagcttgac agttggtgaa aacttttctg tttaaaattt tatttggcc 1380
tccccaaaag aaatgtttat ttatgagtat taggatagtt ccagcagtaa tgcctcaaaa 1440
gaaccaggag gtatagtgtt gtctaaaatg tggactcagg agccagactg cctggctgtg 1500
caactagcct tgtcacttcc tagatatgtg gcaagttaat taacttctca gtgttcttat 1560
ctgtagaatg gggataatcc taatatacat ctcagggtta tattacaaat ttaaaaagtt 1620
aattttgtaa aggacttaga atgatatctg gcaaataaaa gtgttcataa aagtaaacc 1680
tataaaaagt tttactcatt aaatacaata atctgaaacc attagtaatt taaacatttg 1740
tggttgactt ggtaatatat atgaaaataa atactgtatt tataatcttt gacctt 1796

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<210> 37
<211> 83
<212> DNA
<213> Homo sapiens

```

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<400> 37
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taacgccaag aaaaaatggt gtc 83

```

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<210> 38
<211> 773
<212> DNA
<213> Homo sapiens

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<220>
<221> unsure
<222> (295)..(592)
<223> a, c, g or t

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<400> 38
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aaaagagaga gagttataga atagagtaac agatttgga atgcatcaat agttgaaacc 120
tgagagagcag ataaaattac ccaagtagag aatgtagagt aaaaagaaag gaaaggatg 180
gacagaaccc tgacaaaaca ccaggattac agttgggatc tgaaagagga atctgtggat 240
actgaggaaa ggtagccaga aaggttcaaa gtaacgccaa gaaaaaatgg tgtcnnnnnn 300
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 540
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nntgggtgtca 600
taaaaccaag gagccacata aagttttaag aaggaaaaaa tgtccaacca tgtcatatgc 660
ttccaaaagg ttaaataaga tcagaagtgg aaattattat ttgaacttaa caacatagaa 720
tccttaagga cagttgtgga atttcactgg aatgtagtg acaattgaca ttt 773

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<210> 39
 <211> 326
 <212> DNA
 <213> Homo sapiens

<400> 39
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 gggcaggtag caaagcaaag aacgacttga aggtttgaaa ttgaaattct gaatggacct 120
 ggatagcatt taatgtgata ggagaaacta tgaatgaaat atgaatatct ttgttctaca 180
 gggagttgag tgggggggat gaagatagtt aattttgaat atcataaacc tgaagcactt 240
 ctttaattatt cagaaaaatg tgcaaataat gcttaattga ttttgtattt aaatgagtta 300
 aagggacagt ggataaacia acctca 326

<210> 40
 <211> 393
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (227)
 <223> a, c, g or t

<220>
 <221> unsure
 <222> (240)
 <223> a, c, g or t

<220>
 <221> unsure
 <222> (244)
 <223> a, c, g or t

<220>
 <221> unsure
 <222> (317)
 <223> a, c, g or t

<220>
 <221> unsure
 <222> (330)
 <223> a, c, g or t

<400> 40
 cactagctca tgtagtcctc cccacaacca ggtgagacag gtgctattgt tatccacact 60
 ttacaagaag gaaacagaag tctagggaag taggtaatta acattacca caatccgtgg 120

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gcaggaccgg gatttgaatt ggcaatgtgg ctccagtgcc tgggtgctcc acattgggag 180
atggtcccat caggaggtcg tctcttgaca tctccaacaa gccatcnctt tgccatgttn 240
ctancattcc aggtagcctg agtgccccc antgaccaag gaaaagctta cccttagagg 300
gtctttactc ccaatgnccc ccaccttctn atcctctact ttttgttgt taaaattcag 360
ctgacctgtt agttgcnact ggggaaggctc tga 393
```

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<210> 41
<211> 477
<212> DNA
<213> Homo sapiens
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<400> 41
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ttacaagaag gaaacagaag tctagggag taggtaatta acattaccca caatccgtgg 120
gcaggaccgg gatttgaatt ggcaatgtgg ctccagtgcc tgggtgctcc acattgggag 180
atggtcccat caggaggtcg tctcttgaca tctccaacaa gccatcnctt tgccatgttn 240
ctaccattcc aggtagcctg agtgccccc agtgaccaag gaaaagctta cccttagagg 300
gtctttactc ccaatgcccc ccaccttccc atcctctacc ttttgttgt taaaattca 360
gtgacctgt tagttgccac ctgggaagggt ctgaccactt cattctttat gcctctcata 420
cctcagagag ctgccagggc atctctaata cttcatattt ctcaaacagt agttctc 477
```

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<210> 42
<211> 515
<212> DNA
<213> Homo sapiens
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<220>
<221> unsure
<222> (326)..(386)
<223> a, c, g or t
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<400> 42
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aattcctgtt tttcttaata ttatgcataa cacgggtattt ttttaattgca tattgtcatt 180
atagaaacag ctgttaattg cttaacattt attttggagc tggacatctt aaatattcat 240
ttcttagttc aaataatttc caactgattc atataggttc tatattatct ataaataatg 300
ctaattctca tcgccagcaa atttannnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnnnnn nnnnnnnnnn nnnnnnaata gccagtagcc ttgtaagtag tctagatctt 420
aatgagaaca tctctgtata ttttaccact aagtatgaat tggctagtgg ttgtgcttta 480
ttctactttt acactgagtg ttttaaaaca aatca 515
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<210> 43
<211> 530
<212> DNA
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<213> Homo sapiens

<220>

<221> unsure

<222> (326)..(386)

<223> a, c, g or t

<400> 43

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aattcatctc ttagctatag ttagtctttc actcaggagc cctttaattc aagttgtctt 60
tttaattatt cagtaaattc ttatagtctt ttcatattc gtcctgcatg tttctcattg 120
aattcctggt tttcttaata ttatgcataa cacggtatct ttttaattgca tattgtcatt 180
atagaaacag ctgttaattg cttaacattt attttggagc tggacatctt aaatattcat 240
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nnnnnnnnnn nnnnnnnnnn nnnnnnaata gccagtagcc ttgtttgtgt ctgatcttaa 420
tgagaacatc tctgtttatt ttaccactaa gtatgaattg gctagtgggt gtgctttatt 480
ctacttttac actgagtgtt tttaaaacaa atcacttgag ctgctccaaa 530
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<210> 44

<211> 446

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (425)

<223> a, c, g or t

<400> 44

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cagtgttgta agccaagagt gagcaaagag gtgggagaat cagaggtttg aggaagccag 120
ctcaagaaga aagtgtgtag cagagctgat gagatgaaag tggcatgctt gctgggcagt 180
gttttagagcc catctgagaa tagttataat aaatacatgg tgaaattgat ctgccctgtt 240
gtagcacttt ctcaataaaa ctgagcagct catgccctat ctgagagcaa gaggagagtt 300
agattcattg agttggattt ttgccagatg agtgtgataa aaagattgcc cagagtttag 360
agttctgaaa aaagtgttat ggagtggtgg acatgagtct aaagtttgaa aaggatggga 420
atgangaaaa gaaactagct gataga 446
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<210> 45

<211> 906

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (707)..(812)

<223> a, c, g or t

<400> 45

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cagctcttct gtgtcaaaaa caaacaccct cctcccagcg ctgctcctgg cgggctgccc 60
cgccctctgc caggcggttc tcagaggaca agacctaatg agctggctgc tgccagcctg 120
gtcctcacag ttcatcagta ggattocaga caggcatcag gctcaggga acgcgcagaga 180
cagctgcctt ctctctcttc ccggaggcac ctgagacctg agcgcaccga gggggccggg 240
gcatgggctg ctcccagtga gcgtgaagtt cacgcccaga agtacaccg ccaccagctg 300
cagcagcaca ggttcgcca gcgcaccacg agaggctggg gctctctggg agtggaggag 360
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gtcctagctg tgcgtctgga gcacgccagt tctccctgag ctgctctcct cctggcagaa 480
gggggggtcat aacagcacca acatgcggga ttgagggtgag gtctaaacag tcaggcacag 540
gaagctgcac agagaagatg catgggcaac agcgcgccat gagaatccat gcagccccct 600
aagaggggca gagagcctcc aagcaaaagt cattctatct caacactcac tcccctgaag 660
actattcggt cttgggaaat aggataccca atattgaatg tttgtgnnnn nnnnnnnnnn 720
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 780
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nntaccacc acaggattac aaggagaaaa 840
agaggaaagg gatctccccg cctctctctt ttctccccct ctcccaacca gggcagaaga 900
agaaaa                                           906
```

<210> 46

<211> 289

<212> DNA

<213> Homo sapiens

<400> 46

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aaacacagtc cttccatgag ttctgcaaac cttgggttgg aaaagaggct ctagtttgcc 60
ttaggctacc tggactgagc aatataaggc atgggagagg tggtttatct gtttaagggtg 120
ccatgtcttg tttatactca ctgatgagaa gaaaaaaact taaatgaaga cttcagactg 180
aatttttttt cttgtatta aaaacttaga gtgagagtta agcttagatt tagtttttct 240
aaaaccttaa aaactagaaa ccatttatta aagctagatt ttttttttc 289
```

<210> 47

<211> 299

<212> DNA

<213> Homo sapiens

<400> 47

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gggctgagct aaacacagtc cttccatgag ttctgcaaac cttgggttgg aaaagaggct 60
ctagtttgcc ttaggctacc tggactgagc aatataaggc atgggagagg tggtttatct 120
gtttaagggtg ccatgtcttg tttatactca ctgatgagaa gaaaaaaact taaatgaaga 180
cttcagactg aatttttttt cttgtatta aaaacttaga gtgagagtta agcttagatt 240
tagtttttct aaaaccttaa aaactagaaa ccatttatta aagctagatt ttttttttc 299
```

<210> 48

<211> 197
 <212> DNA
 <213> Homo sapiens

<400> 48
 acaggcgtga gcaccatgcc tggccccaat gggatttggt atggaacttc ataaatgtat 60
 tgtaaaatcg tcatagggag aaacaaagaa ccaagaagag ccaaaatact cttgaaaaag 120
 aggacaaggt gagggagttg ccctaatttg gaagctatta agatttatta taaagctata 180
 ataattagac atgatac 197

<210> 49
 <211> 453
 <212> DNA
 <213> Homo sapiens

<400> 49
 ttacaggcgt gagcaccgtg cccagcctca agtatactct tacaacacaa ttaaattcaa 60
 tcttcagtaa tcccaaaatt tcattacccc tgtgaaaatg tcctggatta gcagtctcct 120
 actttaagtg ttttatgaaa gaatacagtt tatttttagta taaataatat agccagactc 180
 tatgaaacaa aagggttgaat aatatittacc tatagctccc atttagaagt accaaagtta 240
 tgaagcacat tcattggcta ctgtcatatt tattaggatt tatgttttat cagattataa 300
 gcactcttta gtgaaaaatg tttttttcct ctttgctcag aaaattgtcc aacactcctg 360
 gtccagtcaa gagtgaagca aaaaactcct caatttgaat ggctttcatt tgggtccatt 420
 tatttggtta cagagaagtt ttgataaaat acc 453

<210> 50
 <211> 1012
 <212> DNA
 <213> Homo sapiens

<400> 50
 gtaacattct atttataatt atgtccttgt tttattaatt ctctatgga tggatattta 60
 gggttatatcc atttttttgc tagtctttgt atgtccctt gaattttatt gtacatattt 120
 tcttgggtat ttgagagatt ttctggggta tacatatcta agatctgatg gatgctggga 180
 tatgtgcttt gtcaactgag gttctcactc ccctggaagt gtgtgagatc agaatgcccc 240
 tgccctagcc cttacttata ttatgtatca gcatgattga tttgtaatag actaataagg 300
 gtaaatagct gagtgtatgc cttctatact gtaattttac tttgttggtc gtctgtttgt 360
 ttaattgggg acccatcttt tttcagattg ttaattttgc taaagatcct ctttgttctc 420
 agagttaatt atcccttaag gaattccatg tgtttatttt tctctgttcc aaagttacga 480
 ttctgtgcta aagtcataat tatgaaatca tcagtttggt catactttta atctatgctt 540
 ctcccttgtg gttgacagtc cccaaggcag gcatccatga agtcaaaagg actgaccaa 600
 gtgtaatctg ccctttttac tgggttgga tttgtgctaa tacactgcaa aagcagtggt 660
 ggataaaactg acagcacctt gcaaagcagc aagggtggtg caccaatttg tcattattta 720
 tgttaaaatt aatgggttca tttgtatttt taaatgaata aacattttaa caatttctta 780
 gttttgattt ctaatagagt aactatagat cagtagatgc caactatagt gtcttccttt 840
 aagagcgtga aggggcctga gactggaaaag ctggagaagc accgctttta agcacatggt 900

agacgtatga atagacaaat actttattct tgttgaacat ggtcattggg aaggaaaact 960
gaggtatgtc attctattac aagatgaatc aggctgatct gcaagttgta ta 1012

<210> 51
<211> 268
<212> DNA
<213> Homo sapiens

<400> 51
gtggaaatta atgttagaat ttgtattatt tagatgaagg gaatgtagcg atgagttttg 60
taaaggaact ggtcatcgaa aggaagggga aaagatgaaa ataaaacaaa ataagaatat 120
aaaatagcca gagagattat acgatcatgt attaacctct cctgagaata aaatattata 180
ttgttatgtt tgaggctcat ttgactcag ttcctagtta agagttggct aacaaaaagt 240
atatcattgt aatgaatgct ttcactgt 268

<210> 52
<211> 581
<212> DNA
<213> Homo sapiens

<400> 52
gtggaaatta atgttagaat ttgtattatt tagatgaagg gaatgtagcg atgagttttg 60
taaaggaact ggtcatcgaa aggaagggga aaagatgaaa ataaaacaaa ataagaatat 120
aaaatagcca gagagattat acgatcatgt attaacctct cctgagaata aaatattata 180
ttgttatgtt tgaggctcat ttgactcag ttcctagtta agagttggct aacaaaaagt 240
atatcattgt aatgaatgct ttcactgttc ttgttcttgt tgttaaacct atattctccc 300
caggctgtgt aatccacttt tgttactctt tgctggagtc actagatgat acacaaagga 360
aattttgtgg cactaactca gtttcgcaca tttttggcta tgaaatgtgg acagaaatta 420
ttgaaactaa tatctaaatg tagctattct ataacttcta tctagccatg ttaattttgt 480
tctctattaa gacggacaat caaagaggaa ataaacagaa catatttctc ctaatgaatt 540
caggctgggg ctaaaagtcc aatatttata gatttcttct t 581

<210> 53
<211> 597
<212> DNA
<213> Homo sapiens

<400> 53
actgcattctg ctgcctttac acgggactgc aaacctgttt ttttcaacct tctgttttat 60
gggtgtgcac acccataaat ctcctgtggc tgggttaagg gaacatacaa gcagctcttc 120
agcattaaga atgtgatggg agagattcag gtagatttga actgccatca tcaatcaaga 180
ccaaggagaa ggctgctttc caggatgtac acatggcctc tgtttgctgt tgctgttttg 240
cttcttttaa gaggtgaacc aatatatgta tgtctgtttc tactgtcact tgcagctcaa 300
cagaacctg taatatacat gaacaagttt ctggaagtta agagagatga gaagttcacc 360
aagtcaccaa cctgactggt accatgagga attcctttac cggagaacat gctgtcacia 420

```

taggttaa atagtgtata cagggtccaaa gaatattcat gttcaatctt agttaaaaat 480
aaatatat agttaggttaa attaggtata gcttttattt cccacattat aattacctgt 540
atttttata cttcatgtaa catcaccaaaa aatttttagta ttagataaat caaaaaa 597

```

```

<210> 54
<211> 304
<212> DNA
<213> Homo sapiens

```

```

<400> 54
gctcgagatc cctcttgtca tccaaagaga acaccaaact ggtgttagct atattttttaa 60
ataggacaaa aagtccctgc cagactgtgg agtctctcca cctggagaaa gcattcaatc 120
tctgttatgt tcatgccttt cagtaccatt cctttcgtat tttttcagtt gacatgacct 180
ttaagggtcc tccaaactaa ggttctaatt ttttttttta acttgacgtc ttactcccaa 240
caagaaatgt gatataatag agctaacagt tctaagaagt ttaagaaat agtatgcaat 300
ccca 304

```

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<210> 55
<211> 2631
<212> DNA
<213> Homo sapiens

```

```

<400> 55
caggtagaca gtgcacaaat tagatattca ttctaaaact tctaatttac agataagacc 60
gagaagaggg tagtaagtca ggtatcttaa ataattggatt cgttgaaact ggctcttcag 120
aagagggtgat tgcagaagtg caaagctggc tctgagggtta aatctttatg agaaaggaat 180
acctttactt tgagggtatta aatggctcag ctctgggata tgaaactttt taagtatctt 240
taagcaatca gtgttcaaat caaagagtga gatgcgtaat ctgacctgtt aaaatcacia 300
aatcagggtg ggcatttagat aatgcctttc agtttaaatca ctgctgcctt ggattctgga 360
aatgtgtgct atataaaaaca cataatgtat gaatagaagt atatggtaac tgacagactt 420
ttgttataca gtgtgataaa gtgaatagaa cattagaata ctaaccgcat gattttgact 480
ttggtctcag tttgtcagtt ggggccttag tttctttaca ttaaaggaga agactaaact 540
aagtttatct tttcaaaaaga ccctttacta ggtgtccttg tctacatttc caaaatattg 600
gacttgtcca tgaccaaaca ggtgggaatg aaggccatta ttttgattat ttttctcttt 660
taagaatttc cagaaatatg ttctttgtag ataaagaatt acatatttgt agagttctaa 720
gcgttcttaa aattcatttt gcccaactcc ttcttttctt aaaggagaca acagaagctg 780
cagaaatagc ctctctgtta ttattacata gcagcagctc cctgtcttta aatatttgaa 840
ctaaacacat tttacatttt aatgaattta atttacagtg tgatgtccag tattgggatt 900
gcatactatt tcttaaaaact tcttagaact gttagctcta atatatcaaa tttcttggtg 960
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aatgtcttct ctgcagccc cctcaccgca gcccctcac acctgtgagg cttctttgac 1260
gttgagcgtg cacaaccgcg tgccagtcgg cggttcccaa gtgcccgcgc agccagcttg 1320
caggggaggt gtgcgcgggt gctacagcct gttgatccca tttcctcctg ctctagtcgc 1380

```



```

ggctagggag tggctctgcc aggaacttcca aggctttttg tctcgggtac tgggtgttcgc 1440
atggctcgag tgtattgttt tcttccaggc aatctcgggt agcgccttcag cttagacact 1500
tcttgtgcgt tctgtcgtct tgggctgcgt gtagtctctt gtttctgcgc tttctccacg 1560
cccttcccag tttcctgtta gccgaagggg atcgcctctt ctgaacgaaa agttctcaga 1620
gcggagctga acctcccga aaatgctctt ctcttccgtg tgcgccggat gggggtgggg 1680
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ccccgactg tcttggtggc agaggggact tttattcagc tggaaaccgc cggcgaggcc 1860
caagtgtctc tggagagatt cggggttcag gaggtggcgg gtgcacccaa ggggtgctggg 1920
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gtctagggca acggaagatg gcggcggcgg ccgggcacgg ggttccgggc tccgctcggg 2040
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cggccgccgg agccggcgcc gcggtcacct ccgcgcgtgc ctcggcgggg ccgggagagg 2220
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cctcggggca gatccggacc aagggtttca tcatgttggc caggctggtc acttctgagc 2340
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gcccggccga aaacaataca attgtgaagc agttctacac catgttcgta gcagcgttat 2460
tcataggagc caaaaagtgg aagcaacca actgttcaact gatggatgaa tggataaaca 2520
aaatgtggca cacacatata ataatgggac attattcagc cttgaactgg agggaaattc 2580
tgacaggtca ctgtgagggt aaaggtcgca ttttcagggt tcagggaatc t 2631

```

```

<210> 56
<211> 401
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> unsure
<222> (279)
<223> a, c, g or t

```

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<400> 56
ccttaaaaaa atttacagaa cacaaaggaa aacataaaca caaagacatg gaaaattttg 60
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aaattttaat cacaatcaga agtacttgta acatttcagt tgcctaact ccaatgagat 180
aacaaagcct ccaaggctac agctgaaact ctgaaaggcc ctgtgctttc tactttacat 240
ttagcgtcta atatttccta ggacagtagt tcccaaagna ggctgtacat agaatctcct 300
ggagagcttt ttaaattgcta atgccaataa ccatatctcc ataaaattta ccctagaatt 360
tccctgggat ggggtgcctg gccatccagt attttttaat g 401

```

```

<210> 57
<211> 859
<212> DNA
<213> Homo sapiens

```

<400> 57
gcacgagtta gctttgcatt atctaaccga tttattttaa atctgccagg aaatcctcta 60
acttttccttc ctttttgttt cagtaagtat caggcagctt caccatacct gagtcctttt 120
gtcttgaagc tgccacagaa aaatccttaca gcaatcattg ctgattagaa actgtttcag 180
acaatcagca tgggtgttat ttaccaaatt cccccagag tcctaggcct cttctccaga 240
aatatctgat gatgaagtga ggggagggca acggtgctac aaaacacgga acagaggtaa 300
agagaaggca ctactttctt gccatacttg taaatgattg ctttgttcaa acataaataa 360
tcttaagtcc aacaccaaatt acctgttact cctacatcaa tctcattagt ggtttaagac 420
acagtactag aattttcatt ttttaaaatc ccttgcccct taaaaaaatt tacagaacac 480
aaagggaaaac ataaacacaa agacatggaa aattttgtca actccttaat ggaattctgt 540
gatcaaaaag caggccagat tctaatacaa atcaggtaaa ttttaatcac aatcagaagt 600
acttgtaaca tttcagttgt cctaactcca atgagataac aaagcctcca aggctacagc 660
tgaaactctg aaaggccctg tgctttctac tttacattta gcgtctaata tttcctagga 720
cagtagttcc caaagtaggc tgtacattag aatctcctgg agagcttttt aaatgctaata 780
gccataaacc atatctccat aaaatttacc ctagaatttc cctgggatgg ggtgcctggc 840
catccagtat tttttaatg 859

<210> 58
<211> 343
<212> DNA
<213> Homo sapiens

<400> 58
gctcgagtgt aaacattcac tgatcttttt tcctttattg aagccacaat ttaaaaaaaaa 60
aaaatactat aaatttcagt ttaaattgag aagccagata tctttcaaaa tgtatccttt 120
atgtggtaaa atagagaata acattgtttt tagttaagta aaactaaagt actgtttcta 180
actaggtaat ctggccttcc aaacacagga gtttgaacag agagttctaa aaattagagt 240
gtctgttctc tgtcagaacc ttctgggaag agtgtgtcaa atgagcacta ctcaggagaa 300
atctctaagg ttttaactta gtttatactt taaactgaga ttt 343

<210> 59
<211> 635
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (33)
<223> a, c, g or t

<220>
<221> unsure
<222> (111)
<223> a, c, g or t

<400> 59

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tottaatgtg atttaaaata ccgggggatga agngcattca gtatctgcct ggtcacccaaa 60
gtccaatgcg acatcccctc tctatagaga tgtattctag caaaagactt nttcatccac 120
catctggccc cagactaaga acacatctca ctgaatgaca cataaaccag tgggatgcac 180
caaatttgct taaccatgag cacatcatct ttcataaca aaagctgaat atgaccctaa 240
ttttatattc tgtaaaactct gttgtggaaa ttattaaaac aactgtcttc tgggtagtct 300
gtaaacattc actgatcttt tttcctttat tgaagccaca atttaaaaaa aaaaaatact 360
ataaatttca gtttaaattg agaagccaga tatctttcaa aatgtatcct ttatgtggta 420
aaatagagaa taacattggt tttagttaag taaaactaaa gtactgtttc taactaggta 480
atctggcctt ccaaacacag gagtttgaac agagagttct aaaaattaga gtgtctgttc 540
tctgtcagaa ccttctggga agagtgtgtc aaatgagcac tactcaggag aaatttctaa 600
ggttttaact tagtttatac tttaaactga gattt                                     635

```

```

<210> 60
<211> 474
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> unsure
<222> (335)
<223> a, c, g or t

```

```

<400> 60
gggaggcaag aactattttc attttatgtc ttatgaaact acagtgcata gtgacgaagt 60
gatttgcccta aagtcacaaa gcaaaaacta ctggaaccat gtccaagct aaagacttct 120
cccaattata gcgttttttc ctcccatagc ctgttttcat taccttcttg tttatccatt 180
ggctttcatg agacatgttt gctgccagtt gtgaataggt tagttcccca gaggacccat 240
gagtaccaca caaactgcta gctgaatctt gtgagaattc taggaggtag ggctataccg 300
gccctgaaga aatttcttga tgactgctca gtggntttat ggaatgtagc agagtattct 360
ctggatactt tagagttact cccttttaag agcatgatat tgacaattct ttttactagt 420
ggaacagtga catctgaaca gcgtgcctga cctttgcaag gttaagcaga atgc          474

```

```

<210> 61
<211> 526
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> unsure
<222> (415)
<223> a, c, g or t

```

```

<220>
<221> unsure
<222> (417)
<223> a, c, g or t

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<220>
 <221> unsure
 <222> (475)
 <223> a, c, g or t

<220>
 <221> unsure
 <222> (482)
 <223> a, c, g or t

<220>
 <221> unsure
 <222> (521)
 <223> a, c, g or t

<400> 61
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 actgaacaac aacaaaaaat ccagtagaaa tgttgacaa aagatgtgat tatacaaaac 120
 tagaaatgca agtaaacata aaaagctcaa acttacttaa aaacttaaaa tgaaatattc 180
 gtaataaaaa ctattactga gggcctataa aattttgggt taaaatgaaa tggtaataact 240
 taataaatgt tagggcacaa tgatgctatc tttcttacat ctttcttttt agaagtaact 300
 tatttcaatg tttctgaaa gcaatttgat aatttttata ttactacaaa aatatggtag 360
 ctaccctttg gctcaacaat ttttttagga accacaaaaa tgcagtcaaa gatgnanata 420
 aaagactgaa agcaattctt catagccttg tttatatgaa gggaaactga aaacngccta 480
 antatttaac aataggtgaa atgattagaa atgtggtata ntcaga 526

<210> 62
 <211> 164
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (143)
 <223> a, c, g or t

<220>
 <221> unsure
 <222> (148)
 <223> a, c, g or t

<400> 62
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 tttgataacg tcctgggcac ttccctctgc ttactcccc tcaattaaaa aatgcctaact 120
 ttaaattaaa agaaccggc cantgcantg ttcatgccta taat 164

<210> 63
 <211> 257
 <212> DNA
 <213> Homo sapiens

<400> 63
 agcatggttg aagctaaggt gaccttgatc aagttgccaa aacctgtttc aggtttgctt 60
 aagtcaccag aacgctttga ttgagacatc ctatacaaaa aaaaaatcga tttgtgcttt 120
 atttacataa aaataaaaact atacttttga taacgtcctg ggcaactccc tctgcttact 180
 cccctcaat taaaaaatgc ctaattttaa ttaaaagaac cgggccaggt gcagtgtttc 240
 atgcctataa tcccagc 257

<210> 64
 <211> 572
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (179)..(265)
 <223> a, c, g or t

<400> 64
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 aatcgtaaag cttctgaact actaaggaag ggaaaagagg ggcccagggc ccacatgtgt 120
 gccaggtgct gatctgaggg ttttttggta ctcactctcat ttaatggtca cactgttcnn 180
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240
 nnnnnnnnnn nnnnnnnnnn nnnntcctg gtgttcaggc ctcatgcctt ctgttcttaa 300
 ctccatatcc tgtgtccctg ggaaaggaag gggccatagt ctggagtggg ttccaggaga 360
 aaagagccag agtaatctct gctcttcatt tcttaacaag aatagaagac agaataaagg 420
 gcacagggat aaaggattgt taaccagact ggcaaatcag tagactaatt aaaaatcaaa 480
 caccttaaaa cactgtcgct gggttaattg taaaccaaca atgaaacgtt aaatttgccc 540
 agccatgagt ttgaatgatt aactgagtga gt 572

<210> 65
 <211> 277
 <212> DNA
 <213> Homo sapiens

<400> 65
 gctggctttc ggtatattatc agtgcctggg aatgttctag gctctggttc aagcctgtag 60
 ggaaaaacct gcagctggct gagccacaga ggtcagggca gtctgtgatt ttcagtcagg 120
 acacagaaaag caagcaggag gaactggagg accctgcggc tgctgtaac aagaaataaa 180
 aatggcacag atattactaa ttaagcacta atcccagagg cggcgagctt gtggccttcc 240
 tgttctcttc ttaaaagcaa gcaagggccg ggtgtgg 277

<210> 66
 <211> 452
 <212> DNA
 <213> Homo sapiens

<400> 66
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 ggggtcaggg tatggagttt atgtgagggt ttaaggattt tggctcaggg cctgggctgg 180
 ctttcggtat ttatcagtgc ctgggaatgt tctaggctct ggttcaagcc tgtagggaaa 240
 aacctgcagc tggctgagcc acagagggtca gggcagtctg tgattttcag tcaggacaca 300
 gaaagcaagc aggaggaact ggaggaccct gcggctgcct gtaacaagaa ataaaaatgg 360
 cacagatatt actaattaag cactaatccc agaggcggcg agcttgtggc cttcctgttc 420
 tcctcttaaa agcaagcaag ggccgggtgt gg 452

<210> 67
 <211> 283
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (274)
 <223> a, c, g or t

<400> 67
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 aatgaaattg aatggattat gagaatattg attattgatt ggtaagtagt aacattattt 120
 tttcaagaac agcaacctaa aatactcata cagttagctc taacaatggt tacaagtctt 180
 aaaactattc ctgcaaattg ttgtattaca taaatgttat tgactcctca accatggttt 240
 tttaaagtaa tatttgtaa ttataaagta aganaataca agc 283

<210> 68
 <211> 432
 <212> DNA
 <213> Homo sapiens

<400> 68
 ggaataattc agcactttaa tgtgttattt aattctcaca gaagcccat tttacataaa 60
 aatgaaattg aatggattat gagaatattg attattgatt ggtaagtagt aacattattt 120
 tttcaagaac agcaacctaa aatactcata cagttagctc taacaatggt tacaagtctt 180
 aaaactattc ctgcaaattg ttgtattaca taaatgttat tgactcctca accatggttt 240
 tttaaagtaa tatttgtaa ttataaagta agaaaatata agccgggcat gatggcacat 300
 gcctgtagtc ccatctactg gggaggctga gtcaggagga ttgtttgagc ctggaggttg 360

aggctacagt gagctatgat cacattattg cacgtttagcc tgggtaacac aatgagaccc 420
tgtctcttta ac 432

<210> 69
<211> 516
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (425)
<223> a, c, g or t

<220>
<221> unsure
<222> (475)
<223> a, c, g or t

<400> 69
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ctgcaaaaaca atatggatac aaatacggat ttttttagcta ttttcatttg ttcttttcta 240
cattatactt cttgaagctt ctgttttatt cagtttgtgt agaggtgaat gccctactga 300
agaatctggt tttcaaagat tatccaagaa aatatttttt gagagaattc tagtggattt 360
aattgatgaa gacatggtaa gagaaactgt tgggaagatac ttgaaagaaa gtcattaagt 420
gaganaaaaa tggagaacta aaatgtggag actcacgaag agcagagtga gcttnaagaa 480
taaagactgg aaacctgtgt ccttaatgca tttact 516

<210> 70
<211> 52
<212> DNA
<213> Homo sapiens

<400> 70
cattgggtta atatacctga gcacagttta tgaacctttg tcctcttcta tt 52

<210> 71
<211> 422
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (311)

<223> a, c, g or t

<220>

<221> unsure

<222> (386)

<223> a, c, g or t

<400> 71

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acccatctct tctctaatat tggaaacagg tggaaaaaacc acctgggctc tcagacagat 180
gtctttgttt ttaaatatTT cagaaaatga ggtagggagg gactgaccaa gggcagcgag 240
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gggccaagt ngggaggaag aacagtgtgt gcctgctggg ctcagcatct gctccagtga 360
gcaacacggg ggtgactggg ggtctnctga atgttaaata taaaggaagt tccttttccc 420
tc 422
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<210> 72

<211> 521

<212> DNA

<213> Homo sapiens

<400> 72

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taagatgctg acaactatTT atgcaaatac cagagaatag ttagctttga acagaagggc 120
acccatctct tctctaatat tggaaacagg tggaaaaaacc acctgggctc tcagacagat 180
gtctttgttt ttaaatatTT cagaaaatga ggtagggagg gactgaccaa gggcagcgag 240
ttttatgaat gctgttcctg gtctcagcag cgctttcctc ttccctcact gacaactgca 300
gggccaagt ggggaggaag aacagtgtgt gcctgctggg ctcagcatct gctccagtga 360
gcaacacggg ggtgactggg ggtctgctga atgttaaata taaaggaagt tccttttccc 420
tcttagagaa gctcatagcc aaactgaaaa gcggaggaga gataaaatga ataacctgat 480
tggaagaact gtctgcaatg atccctcagt gcaaccccat g 521
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<210> 73

<211> 140

<212> DNA

<213> Homo sapiens

<400> 73

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ggatatttgg ttactttgca gcctagaaat tatttcagag aatcctaatt gctgacattg 60
catatttgtt cagtttggag tctggttgtt agattatcaa agaaaagtcc tgctgatatg 120
taagcatcaa atagaaactt 140
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<210> 74

<211> 101

<212> DNA
<213> Homo sapiens

<400> 74
aagctattaa aggctgtccg ttaaggatct ggcttcaaac tgcctttcca ccttcattct 60
actatttcct ctattaaaat atgctttgtg ttttaagcaa a 101

<210> 75
<211> 422
<212> DNA
<213> Homo sapiens

<400> 75
aagctattaa aggctgtccg ttaaggatct ggcttcaaac tgcctttcca ccttcattct 60
actatttcct ctattaaaat atgctttgtg ttttaagcaa attgttaatt tttttttttt 120
tttaagatgg agtctcgctc ttgttaccca agctggagtg cagtggcccg atctcagctc 180
actgcaacct ctgcctcctg ggttcaagca cttctcctgc ctcagcctcc cgagtagcta 240
ggactaagtc atgtgccact atgccagct aattttttaa atttttttgt agagatgggg 300
tctcactgtg ttaccagggc tggctctgca gtcttggcct gaagtgattc tctcaccttg 360
gcccccaaaa gtgctggcat tataggcatg agccatggtg cctgtcccta ttcttaattg 420
ca 422

<210> 76
<211> 253
<212> DNA
<213> Homo sapiens

<400> 76
cacacctcat ctcccttgaca ggaagacatc ttttttctctg tggagcctgt ggaattttatc 60
acttttctatt tctcttgggt gggaaaatct tctcggcatc tagctaggca tggacagata 120
ctgttgggtg atgatgccac tgaagagccg tccttagtgt cacgtggtgc tggctctgagg 180
tcacgggtcca ttggtgtcca ttggcttctc aaggccaata ccagtcctcg gggctaattt 240
ctactactga gag 253

<210> 77
<211> 493
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (199)
<223> a, c, g or t

<220>

<221> unsure
<222> (202)
<223> a, c, g or t

<220>
<221> unsure
<222> (208)
<223> a, c, g or t

<220>
<221> unsure
<222> (211)
<223> a, c, g or t

<400> 77
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gcaacacagg aaaggtagat gcttttcagt aacctttccc tgtaggactc tttcagagcc 120
aagaacataa ggtgtgacct atctggacta aaaaaataa agcagaattg tatcaattgc 180
tactcctttt tattcccanc tngtttttct natttttttt ttttaattccc atcttgtaag 240
agaattccca gggagccttt ttgagagaaa gttcattgga tttatttttt taatttttat 300
gccatttctt gtaaaagcaa actgctctag ttggatgccg ggtatacata aatgtattga 360
taatattccag tctcttgggg aactctagga gtatttgctt aagacacatc tttgggttcc 420
cttacctctt ttctaagatt tacaggagaa ggagagtctt actgtctttt ctagtcttat 480
gaaagtgata acc 493

<210> 78
<211> 652
<212> DNA
<213> Homo sapiens

<400> 78
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gcaacacagg aaaggtagat gcttttcagt aacctttccc tgtaggactc tttcagagcc 120
aagaacataa ggtgtgacct atctggacta aaaaaataa agcagaattg tatcaattgc 180
tactcctttt tattcccatt ttgttttctt attttttttt aattcccatt ttgtaagaga 240
attcccaggg agcctttttg agagaaagtt cattggattt atttttttta tttttatgcc 300
atttcttgta aaagcaaact gctctagttg gatgccaggt atacataaat gtattgataa 360
tatccagtct cttgggggaa tctaggagta tttgcttaag acacatcttt gggttccctt 420
acactctttc taagatttac aggagaagga gagtcttact gtcttttcta gtcttatgaa 480
agtataaacc gactgggagc agtggctcac gcctgtgata ccagtacttt gggaggtcta 540
ggtggtaggc tagcttgagg ctaggagttt aagaccagcc tgggaaacat agactccctt 600
tccattttta aaaaaaaaaa aaaaactcga gactagttct ctctctctct cc 652

<210> 79
<211> 591
<212> DNA

<213> Homo sapiens

<400> 79

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acgtgctata ggcttatagg ctccatgaag caaccttctg ttagatcaag gcaaaaaaaaa 120
aggtctacca tttcctactc catttccatg cccgtaaaag ttttgtttg cactttgaaa 180
tctgcaatga atctagagca gtagcatcaa tactttccta acactggatg gatactattc 240
acagcatccc cctcctcat cgtcaccggc atcactttcc tcattaccac catccccatc 300
actagcatct gtagcacact tagtctacaa agagctttca ttcacctgac cttcttagaa 360
caagataatt atcaactttt ggtgctggac cgagtgttg gacacttcat cttgcagtga 420
ttttgtgggg gtaaatagag cagcattatt tgcacaactc ccaacaacac agtgtttgct 480
acataaggag tgcttgataa atgtggaatt gattaatgta aataaggaaa ctaaagctta 540
ggagaagttc tgtgtttttc tcagtatcag gaagaaagga attgcagaca c 591
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<210> 80

<211> 160

<212> DNA

<213> Homo sapiens

<400> 80

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gatcttcaca ttcaagacgt tcagtgaact ccatatagga gaaattcaag agatccacaa 120
ttagacatat gctactcaaa ctgtcaagag acagagacaa 160
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<210> 81

<211> 731

<212> DNA

<213> Homo sapiens

<400> 81

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gcagacagcc cggcgaaccg cgcaatgcgc tttcttctgc ctgcagcaga gaaaaggaaa 60
gaaaactccg caggggctcc gttggcttct ccacgagtga caaccatgtt ttcccatgat 120
agacagaccg gagccctgct cctttgcgat ccgccgaggg ctgcagagag catcctcatc 180
catttgggca cccctgccc aagaagagccc gggccatccc ctttccggga cgtggatcct 240
ctaagaggtg aattttcttc ggtggattcc gatttgctcc gtctgaccag cctaggcaat 300
ccagcaatcg cggtgggtaa ccaagttgcc gcttgggcac acatggcttc acgccggctc 360
cgctcacca gcaagcgcca ttcccagagg agaaaatgag aactgagtg ggactcaggg 420
attgctccag gccacacagt cagcaggagg caaagcccag attcaaatgc agattactca 480
gctccacaat ccacatcctc acaggagggt gcactccttg cccaagcgtc agacaggagc 540
aaagagaaag aaggcaacca gctggctact ttcttccctt cttggatgcc tccaacaggg 600
tgagaaggac taaacaaatg accaagtgtc atcccatttt ggacatactt aaaacacccc 660
atggaatttt tattctgact ttcttctgcc tgtgtggcat ttatgtttta ataaaagaga 720
attcaactcg t 731
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<210> 82

<211> 666
 <212> DNA
 <213> Homo sapiens

<400> 82
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 aaggcagttt atcacagtgt ccgttcactc agacagcata agtatgtgtt gataaaataa 180
 tcttaaatac aagaacttta gtaaagaaat aagccacttc attaacattg taaaatagtt 240
 ttaagatata aagtatgaaa ggaattttac agtgatataca ttttctgact ttccaattag 300
 caattataaa tttttattga caatcttatt ttgaaaaccc cggagttttc aaatattctg 360
 catttatgtt gaccattttta ccaagatgat aaaacatgca ttattttctg ccattttata 420
 atttttacag gggggaacag cgaagccaga tgatttatta gttattgccg gtgaaaatac 480
 agagatcctt tgaaacattt gtctctccta gaattctcat caaacatat gcttctaaca 540
 cagcacttaa cagtcatggg gagtatgtgg gaataacaga gactcgcttc cctggccaaa 600
 accacacata gaccacaca cttgaaaaat aaggaaataa gatcatctga gtatggagat 660
 tcctca 666

<210> 83
 <211> 673
 <212> DNA
 <213> Homo sapiens

<400> 83
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 tgggttatggg atgacttacg tgtagctctc aagttctaaa taatgttaag ttttagcagat 120
 aaggcagttt atcacagtgt ccgttcactc agacagcata agtatgtgtt gataaaataa 180
 tcttaaatac aagaacttta gtaaagaaat aagccacttc attaacattg taaaatagtt 240
 ttaagatata aagtatgaaa ggaattttac agtgatataca ttttctgact ttccaattag 300
 caattataaa tttttattga caatcttatt ttgaaaaccc cggagttttc aaatattctg 360
 catttatgtt gaccattttta ccaagatgat aaaacatgca ttattttctc cattttataa 420
 tttttacagg gggaacagcg aagccagatg atttattagt tattgccggt gaaaatacag 480
 agatcctttg aaacattttg ctctcctaga attctcatca aaccatatgc ttctaacaca 540
 gcacttaaca gtcatgggga gtatgtggga ataacagaga ctcgcttccc tgccaaaacc 600
 acacatagac ccacacactt gaaaaataag gaaataagat catctgagta tggagattcc 660
 tcaaaaatta aaa 673

<210> 84
 <211> 488
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (392)..(435)
 <223> a, c, g or t

<400> 84
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gaaaaggaca tcttttttota atttaaacag aagcagcgaa gtcctagtgg tagccctgat 120
tagcaatatg gaaaatttcc aagtacatta ttgcttgtgt cataccttac agaaggaaaag 180
aagaatgaga gaggcataata ttagagagtt gtaactgcct attgtttaag gatagaataa 240
taaataactca tcttttagtat ttactaaaga tgaagttgct caggacttaa gtggcggcag 300
tctgttgtaa tggtaaggcg gcacatcggc tctgcagtea gatggcctct cttcttctct 360
aactggtcac cttatgcaag ctggtgcaac cnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnntgtag ggtggcaagg ttatacatat tataaggta tgcataattga 480
tgtaatct 488

<210> 85
<211> 368
<212> DNA
<213> Homo sapiens

<400> 85
ctttatatgg ttctgattta tgagaaaaca cataccaaat tttgatgacc attattaact 60
attattgtct atgctgcttt ttcacacctg agaaacaacc taaaaatctt ggactgtatt 120
tttttaaatg ctaaagtagg attcagaaaa cagatTTTTg tcatattgtc tttgaaacct 180
cattataaat catttagctt ttgctctact tactttcagg tttgccataa agagcacaag 240
agataatata tatgaaagtg atttatactt ttgttaagag ttttggtcag tgtctaataa 300
tattacagcc ttttgctga ctcagcttgg caatctagtc tgtaacttc actctaagta 360
ataatatt 368

<210> 86
<211> 133
<212> DNA
<213> Homo sapiens

<400> 86
gttacagcat tatttaacag tgaaatggtg ttctttatat taaatttgtt cttcctgtct 60
ctatagtgca tatacataga ccttgtgacc acagaatttt tgctattcga aacttttatt 120
gaaaagtttt ctt 133

<210> 87
<211> 626
<212> DNA
<213> Homo sapiens

<400> 87
gaccgctcta attaaatatt ttaagggttac agcattatTTT aacagtgaaa tgttgttctt 60
tatattaaat tgtgtcttcc tgtctctata gtgcataata atagaccttg tgaccacaga 120
atTTTTgcta ttcgaaactt ttattgaaaa gttttcttag cctaggcaac acagcgagac 180

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ctagtctcta caaaaagatt tagccgggca tgggtgtcatc tgcctgtagc ttcagcttct 240
tgggaggctg aggcaggagg gtcacttgag cccgggagtt tgaggcacag tgagctgtaa 300
tcataccatt gcatgggtgca ctccctcctgg gtacctgatg agaccgtgtc tctaaaataa 360
gaaaataaaa taaaggggtgt gggatttgtt ttttcagtag gcaggcgttt cacggaatat 420
gggacatcag tgtgcaatct aagtttctag gttttctttt ttaggttttc ttaaaaaaag 480
atgttccctc aagtaactct taatagaact aatagtactc tcaattgttt ttttcttaca 540
gggtctatat ttacgtgcct aacagtagct ctgggatttt atcgctgtg gatctaataa 600
agtgtctatt taaagtgtaa taaaaa 626

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<210> 88
<211> 380
<212> DNA
<213> Homo sapiens

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<220>
<221> unsure
<222> (372)
<223> a, c, g or t

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<400> 88
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gttgctgcct aaatatgggc atggtggccg gagctccac tgcctggaac cctgaggaca 180
agggtgcat cctactaggg aggcagagct atgagctaga cgcaatgtgg cccctggggg 240
ctctttgcag aacagccact atcccagccc ttctagatgg ggaaagcgag gccctgagaa 300
gtgatgagaa tcagtggcaa agtcagatgt accacttcag tcacacactc acattttttt 360
gctttgttcc tntttttttt 380

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```

<210> 89
<211> 493
<212> DNA
<213> Homo sapiens

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<400> 89
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agtttgcttc tcaggggcat tggttaaaca acttcttaac tggccagggt ccagcacgtt 180
aatcattaac ctagggctga gcatctgctg cctgatgtat ccagaattag tttatcatta 240
cctctaacga ccatctttta tggttccgaa gagcctctat gcagtctctt atcaccgcca 300
tgccaatct tcatttaccg ggagcagtg gctgatgttt cttagttaga ccagagtaag 360
aagtttatgg tcagttgatg aatttttaat tataactgtt taaaaagaag acgatgacta 420
tgaacagcag ctactcgtg gcaatctttg gacagtactt cgaagtgacc cactttccca 480
ttaactctt ggg 493

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<210> 90

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<211> 1119
 <212> DNA
 <213> Homo sapiens

<400> 90
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 gtgtagttag tgtagagaga gaaaacagtg gctgtagtta ggaacaagtg aatgttaaca 120
 agtttgcttc tcaggggcat tggttaaaca acttcttaac tggccagggt ccagcacgtt 180
 aatcattaac ctagggctga gcatctgctg cctgatgtat ccagaattag tttatcatta 240
 cctctaacga ccatctttta tggttccgaa gagcctctat gcagtctctt atcaccgcca 300
 tgccaatctt tcattttaccg ggagcagtggt gctgatgttt cttagttaga ccagagtaag 360
 aagtttatgg tcagttgatg aatttttaaat tataactgtt taaaaagaag acgatgacta 420
 tgaacagcag ctactctgta gcaatctttg gacagtactt cgaagtgacc cactttccca 480
 ttttaactctt gggaagcctg gggtgccctg ttttcgactt tggaggtccg tgggctagat 540
 tcagagtgcc ctggcaggct ggcttggtgt tgaggctgtg gctgcagcct ccgcaacacc 600
 ctatctcagc acctgggaac tggcccttgg tacccgattc tttcttcttt gtgtgtgtgt 660
 gtaaatacatt ttcatttttt ctaatgatca aagtatacat taaaataaat gaaagcaata 720
 caagtccatg tgtatggtag aaaatctgga caataactaaa aatgtacaga aatggctttt 780
 aaagattaat tttcaaccta taaactaagc tacttttcat tttagtgtct ttttaaaaaa 840
 agctttttaa aacattttta agggtctatc atgttcaaga atgagggaat gtttggctac 900
 aaggccttca gtatgactct atcctatagc tggagggttta ataatacaatt atattaaagc 960
 ttttctaagc ctccagaagg gtttgtctgg gtcttattta ctataacagg caagttaaag 1020
 aaacttgagt ttaatttata ttccagttca ctttttttag acaacaagtg caatttgggc 1080
 tttatttatg gaaggagaga gttgtccttc tccccgaa 1119

<210> 91
 <211> 455
 <212> DNA
 <213> Homo sapiens

<400> 91
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 tgtgaaagct ataagaacac actccctaca aattttatacc gacacaccac agacttagag 120
 gaaaagggtt cccaggccct tcccaaggcc ctgaagttga ctttctaagc caaacagacg 180
 ggacatgttg atggaaggct cacttctcaa agaaagtctg aagcaagctc aggaaacttc 240
 tggagctttc tggagctgca cggaaaagctg tggatatgtg gccccatgac gtgggtctct 300
 gaacttgcat agacttgacg tatggcaca aaattgcaga tggaaaagag gaaaccacag 360
 ctttcacgct aatgaacagt gtttcttaca aagagttacc tggcttctag atctgtgatc 420
 atgaattcca gtaaaggcaa aaaaaaaaaa aagg 455

<210> 92
 <211> 891
 <212> DNA
 <213> Homo sapiens

<400> 92

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gaagtctatt atagcaatta gtttgcttta aatatgtaat ttatattaat ggccttatac 60
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caaccacact cctcacgtcg tcatttgggt ctttgcatgg tgttttgcca ttcattgggca 660
agttcctttt cctttctccc cctcttcagt gtcttatact tgggtgtttt ctgttccagc 720
tgaatcaaga attagtttat taaattccag taaaattgtg gtgttctttt gactaggatt 780
gcatttgttt acacattaat ttgagaataa tagacctctt tataattaat ataatgtttc 840
tgattagtgt tatgataggc ctcattttat taaagtcttt tatattcttg g 891

```

```

<210> 93
<211> 278
<212> DNA
<213> Homo sapiens

```

```

<400> 93
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acccaacgaa gaaaacttgt atcttgtcag gggtggtaac ctggctgcca ttgactgaga 180
ccaaaaatat ccaacagttt gtcttcagct gctaagctgc tgtgggttaga atcaaacgta 240
gagtttctgg cctgggtgagg tggctcatgc ctgtaatc 278

```

```

<210> 94
<211> 274
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> unsure
<222> (95)
<223> a, c, g or t

```

```

<220>
<221> unsure
<222> (194)
<223> a, c, g or t

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```

<400> 94
gattaccaga ttttattttt aaaattttag caatatcggt cttaatatata gccaatcac 60
tgcctatgga tgcagcacca tttttccttg cacanccct gtagagacct gcctgggtgct 120

```



```

cagaagaaga aagatngaat ttgctgttcc caggaaatgc tgcacattgt ccattttacca 180
gcatcttata gaanatataa atatgaatct acaaattctc ttggatttaa taatgtaact 240
tatattttatc ataaggtggc tattccagat catg 274

```

```

<210> 95
<211> 130
<212> DNA
<213> Homo sapiens

```

```

<400> 95
cagataccac tctaggtgat gactgccagt ctgtgcttac agcccaaacc tctcctgagc 60
accaacccat atgccacagg tgcagagaca gcacaaccca gtgtcaagga gcctggcctt 120
taagagtcac 130

```

```

<210> 96
<211> 1100
<212> DNA
<213> Homo sapiens

```

```

<400> 96
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taaaatactt atttttaatg tttaatgctt tagggaagaa agcagggaga tgaaacatga 180
aagatgaaca ggaaatggta ggagattttt atgaaggtag aagagacagg gctttgggaa 240
tggtatcccc caggttaact cccagatttc tggcttaggc aactgagtgg caccactgtc 300
agagcctaga aatacaggct tgaaaggaga gatgctaagt gtagctttgt tggctctttg 360
ataaatatgc gacctgcacg tggagctatc caggaataac aagtcaaaag acccaagtcc 420
tcttgagagt ttcctctgag ccatatatgg tttcctttct tttttctttt tttttttctt 480
ttgagacaaa gtctctctgt cgcccaggct ggagtgatgc aatggcacia tcacagctca 540
cgggagcttc gacttcctgg gctcaggtag tctcctacc tcagcctcct gaatagctgg 600
gacagggtgc caccaccaca tctagctact ttttgtattt tttgtagagg tgggggtctc 660
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atcctcacia caacctatt attatgcctc cctttaacag ctgaggaaaac tgaggcacag 840
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ggttgtgctg tctctgcacc gtgggcataat gggttggtgc tcaggagagg tttgggctgt 960
aagcacagac tggcagtcac cacctagagt ggtatctgaa gcctcaagag gagacaagat 1020
cacatggaac gccacggaca gaaccatgtg gagcaccatt ctcatctagg taggagtcct 1080
caaagaaggt taaaaagaaa 1100

```

```

<210> 97
<211> 591
<212> DNA
<213> Homo sapiens

```

<400> 97

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cgatgttttt gatatgtttg ctagttataa attaaataac tatagttatc cagtttttagt 60
tttgtatgct actctcttcc ctcacatcat gatattttta aaatctagtt cagtgtttct 120
gatatatgat ccaaataagta ttaatatatt taatgtgttg aaataaacac actaatcac 180
cttagcacac agtatacaca ctaaaagtat taatatgttt agtgtgtata tttctataaa 240
cactaataat atagaaatat acacactaat aatatataa ttatttttatt atttttgcct 300
cttcattttt tgttgatcat caactcatcc ttagttacct ccaccatcat cacaaatcct 360
ttaatatatt taaaccctta ccttccttgg ttataaatta aaattaaaca caacttttgt 420
ctctagagat gcagatatag tctgtgaagc tgctttgatg gcagtgattg tgaaattcct 480
ctgattgggt caggtttggg taaatttctt tcagtttttt tactctagtt cctactacca 540
atttatagtt agcttaggac ttggacacca gaatctaagt ctatgagaaa t 591
```

<210> 98

<211> 1550

<212> DNA

<213> Homo sapiens

<400> 98

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gatcttacat ggcttatttg taacctgcag tattgaccat tgccccttat aatttatagg 60
taaatctctg tgatcagcat ttttaacagc tcaatcgatg ttttgatat gtttgctagt 120
tataaattaa ataactatta gttatccagt tttagttttg tatgctactc tcttccctca 180
tcatatgata ttttaaaaat ctagttcagt gtttctgata tatgatcaa atagtattaa 240
tattattaat gtgttgaaat aaacacacta atacacctta gcacacagta tacacactaa 300
aagtattaat attgttcagt gtgtatatct ctataaacac tcaataatat agaaatatac 360
acactaataa tattaatatt attttattat ttttgccctc tcattttttg ttgatcatca 420
actcatcctt agttacctcc accatcatca caaatctttt aatattacta aaccttacc 480
ttccttgggt ataaattaaa attaaacaca actttgtctc tagagatgca gatatagtct 540
tgtgaagctg ctttgatggc catgtgattg tgaacattcc tctgattggg tcagggtttgg 600
gtaaatttct ttcagttttt tctacttagt tcctactacc aatttatagt tagcttagga 660
cttgagacac agaactctag ttctatagag aaatggactg agtctgtcct gttcacagct 720
agatcttgaa cacccaagaa tataatacct gatgcaaagt agttggtact cagtagatat 780
ttgttgaaat aaaaatgtcc aaatcaaaga aaccacagtc tgatgcccat atattcctat 840
atacaaaatt gtacattata cttaatatat agaagtgtat attaaaccta aatgttctaa 900
tactattttt acatctacaa cataaaaaag aataatgtag gctcaaatat cagataaatc 960
taggttgaga ttgtggcctc atcatttact taaagtgtgt tcttgggcat attagtaggc 1020
attctaagtt tcagttccct cttctcttga ttatataata attactacat ggaattgcta 1080
tgggagatta atacaaataa agctcatagt actgtggctg tctaactttt tagctgtcat 1140
tattctaaca gttattacta tcctattctc aactgttttt aaatagtatc ttgctgtttt 1200
ttaactttat gtccatttta ctgttccact ttatgagcca cagagtctgg aatccagcct 1260
tggttctctc agaactattg attttctatg ttcttggttg aacaattttc tgctttagaa 1320
aatctgcac agtcttcttc ttacagatt ttccctcttt attgtaaaga tctttaatcc 1380
atggaattta ttacaaatta atgattaatg gactggctct gagtgaataa ttcagcagct 1440
gaactaaggc tgtcttaaat agcaccaata taagtgaatt caggtaaacac acaatgggta 1500
cttttgctct gctgcagatg atagctcttt accttctgtg gtttttccat 1550
```

<210> 99

<211> 535
 <212> DNA
 <213> Homo sapiens

<400> 99
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 attttagaat ttcccttctg cttctgaaaa cacttcagtg gcttttcatt ggcccaaact 120
 ttttgggggt agtattcaaa agtttcatga tttggccctc atttgccctt ctgatgtcat 180
 catatgtcac tctctcccat atactttaat gcaagttttg tgatctctga gtacatgtca 240
 aacttctact ttaactccac ttgtcatttg tggtatgaag actggaagcc ttccttttcc 300
 ccaggcttgg gtgaagccaa gtgctttaca tacctggaat gtctttgtca cagtaatttt 360
 cagttagttt gtaattgctc atttaattaa cttagtcccc tcactagatg tgagtacttt 420
 gaaggcagta atttttttta aacaatgggt gcttaacatt caataatagc ttgtagattg 480
 tgggtgatttt atatatatttg gcagtttttt aatgttttat tttgaaactg gagat 535

<210> 100
 <211> 493
 <212> DNA
 <213> Homo sapiens

<400> 100
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 ttctttacta aaccgtggac ttcttgaggg cagaggctag atcttggtca tctttggagc 120
 catagtctcc attagttgga tgaatgagta cgtgaatgaa tgcttgaatg aatggagtgg 180
 aatgaaccct gtctccccag ttctatgtcc acctcttatt cattctgtga ctttgggtag 240
 gacatttaac catagttaat aagaatcatc acaactgttt gcctttctca catactgggt 300
 tcaaaatcaa taaagtattt aaggcaatgc tttaaaaacc atacagcact gtacaaatat 360
 gctatcccat ggttaagtag aatttagtgg gaaaattgat accatcaaca tttgattgca 420
 atgattttat ctaatagaaa attaatcttt cctgggcaca gtgggcttca cacctgtaaa 480
 tcccagcact tcg 493

<210> 101
 <211> 843
 <212> DNA
 <213> Homo sapiens

<400> 101
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 cacctactgc tacatttaca tagtaaccca aaattgcagt tgcttagcag ggagagaatc 120
 acagtgtggt atattattta tactttttct tccaaaacga tttgaggaag tactgtgctg 180
 gccattgttt acatcatatt aggagatctg gatgtcactt tcttttccca tatcctcgat 240
 ttctcactt tttaaaatgt catgtgtttt tgtaagtttt cttaaatect ttggaaatgt 300
 gatgacggtg aaaaatccct gaaggcttct atacacctgt tggcatggaa tattttgcaa 360
 cccgtttctt ccctacaaac agaagagaca actaaatacg gtttgatcta catctgcaag 420
 agcctagcca ttcagtatta aaaagtgatg gccctgggtg acggtaccac acctgaagac 480
 ctatgccctt tccttcacac tccctacttc tgcatttctt ccctcctgaa cgtctatcaa 540

gtggaccata tgaaattgcc agtattcaac tgttttttat cttaaaaggt gacaattcta 600
tattcattcaa cctaaattaa tgtctcaaga acataacctt tgtttctatt attgtgacct 660
tacttttaac catcctagag ctctttaacc tgttcacact ggatttcaag gatcttaagt 720
tgtttctacta cataatcact atcacacttc agaaacattt tagtttacat taaatacact 780
taacccctc atatttcac tcttcctttc tcaaaaatag taataaataa cctcaagcca 840
tta 843

<210> 102
<211> 1101
<212> DNA
<213> Homo sapiens

<400> 102
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cagcctcccc agtagctggg atcacgtagc gcccgccagc atgcctggct aagttttgta 120
tttttagtaa agacagggtt tcaccatgtt ggccaggctg gtcttgaact gctgaccttg 180
tgatccgccc gcctctgcct cctaaagtgc tgggattaca ggcatgagcc cggccgaaat 240
acaatttaat taaaataactt attttcttat tagaaagctg cctctcaatg gcacctactg 300
ctacattttac atagtaacctt aaaattgcag ttgcttagca gggagagaat cacagtgtctg 360
gatattattt atactttttc ttccaaaacg atttgaggaa gtactgtgct ggccattggt 420
tacatcatat taggagatct ggatgtcact ttcttttccc atatcctcga tttcctcact 480
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gaaaaatccc tgaaggcttc tatacacctg ttggcatgga atattttgca acccgtttct 600
tccttacaac cagaagagac aactaaatac ggtttgatct acatctgcaa gacccatgac 660
attcagtatt aaaaagtgat ggccctgggt gacgggtacca cacctgaaga cctatgcctt 720
ttccttcaca ctccctactt ctgcatttct tcctcctga acgtctatca agtggacctt 780
atgaaattgc cagtattcaa ctgtttttta tcttaaaagg tgacaattct atatcattca 840
acctaaatta atgtctcaag aacataacct ttgtttctat tattgtgacc ttacttttaa 900
ccatcctaga gctctttaac ctgttcacac tggatttcaa ggatcttaag ttgttctact 960
acataatcac tatcacactt cagaaacatt ttagtttaca ttaaatacac ttaacccctt 1020
catatttcat ctcttccttt ctcaaaaata gtaataaata acctcaagcc aaaaaaaaaa 1080
aaaaaaaaaa aaatatgcgg c 1101

<210> 103
<211> 176
<212> DNA
<213> Homo sapiens

<400> 103
gggtaacaga gtgagactcc gtctcaagag aaaaggaatt ttcttatttt aaaaataata 60
ttctgttgtg tatatctacc acattgtctt catttactca ttagatgtta aactgtttat 120
tctgtatttt ggctattgtg aaaagtgtca caaacagaat tgcaaatgtt tcttca 176

<210> 104
<211> 1689

<212> DNA
<213> Homo sapiens

<400> 104

ccgctcattt tttttttttt tttttttttt tttttttttt aaacaaacaa aattttattaa 60
actttcaaaa tacaaaaaca tcatcaaaaa gtcatagcat ttctatacat tagtaactat 120
ctcaaaatga aattcaaaaa aattccatct acctaactat agtttgaagt aaatttaacc 180
aaaaagttga aacaccttac attctactct aaagaacatt atacaaatta agtaacacat 240
aaatggaata atattactca ttcatgaact ggcattttta atagttaa atttgtatta 300
cacaaaatga tctgcagata taatgcaacc tctatcaaaa taccagtgc atacttcata 360
gacattttta aaaagcatat ctaaaattca tatggtacca caaacaccc taaatagcca 420
aagcaatcaa gacaaaagaa ggtatcaccc tgactttgaa atacactaca aaactgtggt 480
aaccaaaaca gtatgtcact tgaataaaaa cagagatata ggccaatgga gcagaagaaa 540
aagagagcag aaatatatca gtgtatttac agctaactga ttttaaatac aggtgacttt 600
ttttttttta gggaaataac agtatcttca ataaatgatg tttagaaaac tttatgtcca 660
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taaattagcc acttaaatgt aaggcctaaa actcttaaac tactactacc aaaaaataga 780
gtgaaagccc cataacattg gtctgggcag caagtttttt gatttaacct aaatatccca 840
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ataagtaact attaaaaata agtagctgaa ataagtattt ttcaagaaaa tacatacata 1080
atggccaact gatatattta aaaatgctca atgtcaatta tcacaaaaag gcaagccaaa 1140
aaagaaaaaa caaaactagg agatatcaac tcattcctgt tagaatgact cttattaaaa 1200
agaaaaagcg ttggtaaaga tgtgaagaaa agggaaggct tgcacactgt tggtttgga 1260
tgtaaatgaa gacagccatt atgaaaaaca aaatagagat ttctcaaaaa acttaacta 1320
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aagaaacatt tgcaattctg tttatagcac ttttcacaat agccaaaata cagaataaac 1440
agtttaacat ctaatgagta aatgaagaca atgtggtaga tatacacaac agaataattat 1500
ttttaaaaata agaaaattcc ttttctcttg agacggagtc tcaactctgtt acccaggctg 1560
gatgcagtgg cacaatctca gttcactgca acctctgcat ccctggctca agggattctc 1620
atgcctcagc ctctggagta gctgggatta caggcatgca ctaccatgcc catgcccagc 1680
tgagatttt 1689

<210> 105
<211> 768
<212> DNA
<213> Homo sapiens

<400> 105

aaaaaattaa aagcttctag agacttctgg tttctacttc cacacataag gaacttggaa 60
attgccactc catcctatca acaagtaaaa agctaaatgg actaaaaaat caacaactct 120
tataagacgg aaagtcactg agtatgatgc tgctcccaa cttggagaat acaggggagtc 180
acatctctcc agagtggaga ttcagtgaga gaaacaccaa tgagaaaaag aaatggagta 240
tgaaacctga actctaattg atgaatttct ggagaataag tgaggacaag actgagaatt 300
aaacattcca gaaaaactaa ctcataaggg gaacttcaca atattttgag attcaccttc 360
acaaatttga ccattttcca cagcaaatat cagagaaaaa ttaacttgta cattcaggag 420

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agaaagggaa aaagaaacct ctttgaaata taccacagag ctctattcct cttatcaagg 480
cctgccctca gaagaaacga attaaccaaa actatcatca gagcctaatt gacctgggga 540
agagaaatgc ttgtctcctg ctccactagt tttctacctg tgagaaggca aatacacaac 600
tccagcccac tctagtcatc ttgtcctacc aaagcgggag aacaaaacag aacaacactt 660
gtaaagttga caatccagac gcatagactc actaaaaagc tgagatgtaa tcattaaact 720
aaaatccttc ccctgccact acaccatatt actaaaggcc tattttaga 768

```

<210> 106

<211> 612

<212> DNA

<213> Homo sapiens

<400> 106

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gggaatttca gacaacctag cctagactaa atgggtgggca gcacctggca gacaagaact 60
caagaacctt ttctcagggtg gctctgcttt gctgcaggta atggagaagc actggagatt 120
tgtaagccac ggagtcaaat ggtggactgg gatthttcagg agatcattta gagagcaaga 180
tcttaccaaa tccttttagtc atggtctatt tcgttgcaact catatgggtg ttactgcaaa 240
ggtgaagaac taatgactgc agcaggaaaa agaattggat gtgtcatgaa ttatggccct 300
gcttatactt ctacttcaac cgtaatcatt tgtttaaaca aaaagtctctg catttgaatt 360
gtcacaattg tgtgtgtgtt ataaacatct catatttcat ccaggctcag ccaacacttg 420
cctttattaa tgctcataat caagaaataa atctcatact aacccaaaaat tacccttcat 480
aagagaatat aaacagaagt ctggttcata aacttactaa ttaacacctc tattctcatg 540
tatcaactaa catttttggt tcgtcttaaa ataaataaaa ctttatgaca tgctaataat 600
ttatttaaaa aa 612

```

<210> 107

<211> 628

<212> DNA

<213> Homo sapiens

<400> 107

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aaattatttg caaacacttt ttagctgaac cctctcattt cacagtggag ccttttaattg 60
tttcctttgc agaactcaag aaccttttct cagggtggctc tgctttgctg caggtaattgg 120
agaagcactg gagatttgta agccacggag tcaaatgggtg gactgggatt ttcaggagat 180
catttagaga gcaagatctt accaaatcct ttagtcatgg tctatttcgt tgcactcata 240
tggttggttac tgcgaagggtg aagaactaat gactgcagca ggaaaaagaa ttggatgtgt 300
catgaattat ggccctgctt atacttctac ttcaaccgta atcatttggt taaacaaaaa 360
gttctgcatt tgaattgtca caattgtgtg tgtgttataa acatctcata tttcatccag 420
gctcagccaa cacttgccct tattaatgct cataatcaag aaataaatct cataactaacc 480
aaaaattatc cttcataaga gaatataaac agaagtctgg ttcataaact tactaattaa 540
cacctctatt ctcattgtatc aactaacatt tttgtttcgt cttaaaaata ataaaaacttt 600
atgacatgct aataatttat ttaaaaaa 628

```

<210> 108

<211> 103

<212> DNA
<213> Homo sapiens

<400> 108
ctagaccacg ttgtggaaat gtctcacaac attgatctac taggcaagga tttttgaggt 60
cagaccgcaa aaaccacagg gcaaccaaag gccaaagtta gac 103

<210> 109
<211> 348
<212> DNA
<213> Homo sapiens

<400> 109
gtgaatcctt gtaatcctcc gtctccagac ggcagtggcc agagtggacg tgggtggcctg 60
agctgtggcc tgggctgtgt ctggaggctg ggatttgggc tccggctctg tcccagccca 120
gatgctggtc ccttcactc tggtcaggtc agtgaataga gcaccagga aatgggtgct 180
gcggtcatag ttgtggctgt gggtattaat aacactgtcg tgttactgtt atgagagagt 240
gtggtgagag catctgtccc agcctagcag gccacagact ttctagaggg gcagtagagg 300
tagaaacaac tcaggattct gagagtcctc aagtccatcc tggccctg 348

<210> 110
<211> 616
<212> DNA
<213> Homo sapiens

<400> 110
cgaggctggc ggtgcgctgc ttcctcagag ccgcttcctc agagccggct gcggcgggccc 60
cgggcgggaa ccacggagcc cagtgcacca gcctcctcgg tgctaccgcg ggacacagag 120
gaaacaggaa cagctggttt ctgtgggcag gcccgggct ggaactagag ccagggtgcg 180
gccggcgggg gacagggaaa gagatcacag cgaagaccca gaagaaaca aaggcaagcg 240
aatattttta tatccaactg cctactggac accaaccacg tggacaagtc ctggttgcct 300
caaactcaac atgttcaaag ctgaatacat cacctgctct cccaaatatg ctctctcct 360
gctgttccca aaatcagaaa atggcttcac gatcagctca gtcattctca gagcaaatgc 420
tgagagtcac ccttgaatcc ttctgttgcc tccacattca aaccatcacc atatccttga 480
tttctctact gtatatTTTT catatgtgtc cacttctttc catctgcact ctcattagtg 540
aaggccacca acatctctca tctgaatgcc tgcaatacct cctcacaggc caccaggcat 600
ctagttttgc ccctgt 616

<210> 111
<211> 1049
<212> DNA
<213> Homo sapiens

<400> 111
atgagctccc gagcttgggt tcctgaagtg gattatgctg gaggaacaca ggtagaagca 60

```

gaagtaacaa aggagagaag gagactgccc tactgcccta taccaggaag gaataaaagcc 120
aaaaaaacag aattctccaa gtgtcaagca aaaacacata ctttgcacac gtttctcgag 180
gtccagcccg aaagcctgcg ccctggggcg tccctgcttc ggcccccaga ggggggcag 240
cctcgctcct ccctccgcca ggctgcccg ggaggcctcg acccggcgag gtgacccgcc 300
ccagggtcgc cggcgcgagg acgaggctgg cgggtgcgctg cttcctcaga gccgcttcct 360
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```

```

<210> 112
<211> 388
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> unsure
<222> (324)..(364)
<223> a, c, g or t

```

```

<220>
<221> unsure
<222> (364)
<223> a, c, g or t

```

```

<400> 112
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gtgacaccgg gcgtcggcag cgcagacctc ttggccttct ctacagggtc ggtgcgctcg 180
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cagtcccgct gcttcgggca cctncggggc ccggcggtcg gctaatgttt tgtttgaaag 360
atcngtgga tttttaagag agtatTTA                                     388

```

```

<210> 113
<211> 756
<212> DNA
<213> Homo sapiens

```


<400> 113

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tggcggggacc gcgctgcccg agaaagggac ggaccaatac gtgtgtttcc tccgctatca 660
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cggtggaact ttttaagaga gtatttaaaa aaaaaa 756
```

<210> 114

<211> 918

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (314)..(342)

<223> a, c, g or t

<400> 114

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cggtttacac cgcgggcggg cgcgagggga ggctgcgttt cctccgctat cagtcccgtc 240
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ctcatcttct cttctggaag atttgcgtta gagtttttgt tgggccttca aaaagctgtg 480
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ttttgtgttc cttctttt 918
```

<210> 115

<211> 2753

<212> DNA

<213> Homo sapiens

<400> 115

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gcagtctcca gaagtttgag acttgccgt aagcggactc gtgcgccccca actctttgcc 180
gcgccagcgc ctggagcgga gagcagaggc ggcccggccg cggcgcgccg gctttgtcat 240
gatggccagc taccgagc ccgaggacgc ggcgggggcc ctgctggccc cagagaccgg 300
tcgcacagtc aaggagccag aaggggccgc gccgagccca ggcaagggcg gtgggggtgg 360
cggcgggaca gccccggaga agccggacc gccgcagaag cccccgtact cgtacgtggc 420
gctcatcgcc atggcgatcc gcgagagcgc ggagaagagg ctacgctgt ccggcatcta 480
ccagtacatc atcgcggaagt tcccgttcta cgagaagaat aagaagggt ggcaaaatag 540
catccgccac aacctcagcc tcaacgagtg cttcatcaag gtgccgcgcg agggcgccgg 600
cgagcgcaag ggcaactact ggacgctgga cccggcctgc gaagacatgt tcgagaaggg 660
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gccccgcaag gggtctctcg gggccggagg cgccgcaggc ggggtgcggcg tggcgggcgc 780
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ttctagagag aactagagca cttttgttgt gtttttttgt tttgtttttg ttttttgcc 2700
 tgtcgattcc cgaataaatt ttgtgttcct tcttttaaaa aaaaaaaaaa agg 2753

<210> 116
 <211> 81
 <212> DNA
 <213> Homo sapiens

<400> 116
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 attaattaat ttattgtcta a 81

<210> 117
 <211> 558
 <212> DNA
 <213> Homo sapiens

<400> 117
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 ataacaattg attagtcttg ccaattcttt tacaaatttg gttatctaca ctttatttct 120
 gtgtgtataa gtggaatcac aggcctgctt tactgctgtg atgcagtagc ttgaattgtg 180
 ctataaaatag catattttgc ctgtaatatc aactataagc attctctata atcaagcaat 240
 tatgcctcta aagcacataa aatttaaaaa tctgttctta ttagctctgg aaatattgtg 300
 gaattttaca tggaaatctta tcttggggaag gtagattttg aaattcttag aggattattt 360
 gtccccattt ccattcagct gacatgggtga cttttgtcac aagtcctaaa aattagaata 420
 atcagagggc aaggggggaca tcaactgcag atgttgagga agcctagtgc aatttagaat 480
 aaattttact atttaaaact cacctattgc tcagagagca attatatatt ggtaggaatg 540
 actcatctat gggctaaa 558

<210> 118
 <211> 693
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (209)
 <223> a, c, g or t

<220>
 <221> unsure
 <222> (444)
 <223> a, c, g or t

<400> 118

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acccatgaac agctcagtga agagagtggg gaggtgggca tgatctctga gcaccgtggg 300
ggctccccag cctgggggct ccccaaccct gatgccc aaa agtttttatc taggcctcat 360
tacacaggta tgattgatta agtcattggg cattgggtgat tgaacacaaa ctcaatctct 420
ggccccctcc aggagtgggg gcgntgaggg gggctggaag ttcctctcta attacatggg 480
tggttcctct ggcaacaagc tcccacccta aagctacctt ggggtcccc aagagtcacc 540
tcattagggg aaacaaatgt ggtgaaaaag agttgttatg aaatcagaca cccctatcag 600
gaaattccaa agatttaagg agttctgtcc ctggaacagg ggacaaagac cagatgtatt 660
ttttattata ccacaataa aatctcttaa ttt 693

```

```

<210> 119
<211> 838
<212> DNA
<213> Homo sapiens

```

```

<400> 119
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tctgtccac aagactctgc ccctacttct gatgacagcc ggtacatggg taccagggca 120
accacactc actcctgaca actgcagatt tggggaactt tacatcccct cagattcact 180
agaacacctc ccagggtctca ggaaagtgtt ttacgtacaa tcatgcttat tatgaaggaa 240
acccatgaac agctcagtga agagagtggg ggaggtgggc acctgatctc tgagcaccgt 300
gggggctccc cagcctgggg gctccccaac cctgatgccc aaaagttttt atctaggcct 360
cattacacag gtatgattga ttaagtcatt ggtcattggg gattgaacac aaactcaatc 420
tctggcccct cccaggagtg ggggcggtga ggggggctgg aagttcctct ctaattacat 480
ggttggttcc tctggcaaca agctcccacc ctaaagctac cttgggggtcc cccaagagtc 540
acctcattag ggtaaacaaa tgtggtgaaa aagagttggt atgaaatcag acaccctat 600
caggaaattc caaagattta aggagtctctg tccttggaac aggggacaaa gaccagatgt 660
atTTTTtatt ataccacaga agagtaataa gacgaacata tataccagc atccaaatta 720
agaaacataa cataaaggta tcttttaagc ctcttggtgt cctttgtgaa tatatttctt 780
ctgcttccca gaggaaacca ttatcttgaa ttttggtgta tctgttacct tgcttgct 838

```

```

<210> 120
<211> 551
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> unsure
<222> (494)
<223> a, c, g or t

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```

<400> 120
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```

```

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ttgggagttc tgaaatatcc atgaatactt gcaccttttt ccagaatcta aacttcatac 180
atctagtttt gttcttgtaa attgttttga ggaagtgggtg gtcagtgtca caaaccagct 240
gtggctccaa acagacacca ggatttaggc ccattacaga gagaccaccc tggaaatatt 300
ctacagtga gaggagcttt cagtctagaa gaggaggaaa tgatacttag tttagtcac 360
atgtgctttg gcaagaaatt acagtcgaaa ggaaggaaca gataaacatt gtgtggtgta 420
gccactttga agagtgggtca aattccctgt ggcaaaactt cctcctcccc tcttcattcc 480
ccattcccc tatnttgatg ttagataggt ggcactttac tgtgtcactc ccggcctatn 540
ctccccacaa c 551

```

```

<210> 121
<211> 635
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> unsure
<222> (540)
<223> a, c, g or t

```

```

<400> 121
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gattgtttcc aaatgttcag aattaaaatc tgtatactta aattctgtac atagatcact 120
ttgggagttc tgaaatatcc atgaatactt gcaccttttt ccagaatcta aacttcatac 180
atctagtttt gttcttgtaa attgttttga ggaagtgggtg gtcagtgtca caaaccagct 240
gtggctccaa acagacacca ggatttaggc ccattacaga gagaccaccc tggaaatatt 300
ctacagtga gaggagcttt cagtctagaa gaggaggaaa tgatacttag tttagtcac 360
atgtgctttg gcaagaaatt acagtcgaaa ggaaggaaca gataaacatt gtgtggtgta 420
gccactttga agagtgggtca aattccctgt ggcaaaactt cctcctcccc tcttcattcc 480
ccattcccc tatnttgatg ttagataggt ggcactttac tgtgtcactc ccggcctatn 540
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aagatggatc tttatttctt ttacttttat attct 635

```

```

<210> 122
<211> 118
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> unsure
<222> (99)
<223> a, c, g or t

```

```

<220>
<221> unsure
<222> (113)

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<223> a, c, g or t

<400> 122

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 tggataatga gaacccaaaac ataaaaaaag agaagaaana aaaaaagaaa ganaaaga 118

<210> 123

<211> 673

<212> DNA

<213> Homo sapiens

<400> 123

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 ctcagctcac tgcaaacctc cgcctcccgg gttcatgccca ttttcctgcc tcagcctccc 120
 aagtagctga gactacgggc acacgccaca acgcccgggt aattttttgt attttttagta 180
 gagacagggt ttcaccgtgt tagccaggat ggtctcgatc tcctgacctc gtgatctgcc 240
 tgctcggct tcccaaagtg ctgggattac aggcgtgagc caccgagccc agcctaaaaa 300
 ctatttttat atattctctt tacatctcca taatcctgta aggacgtagg cattattctt 360
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 aaaaaaaaat tcagatgaga aaactaaggg acttgctcaa agctgcacaa ctagtaggaa 480
 cagaataacc caattcttac agtgtcttca ttcagggctc cttccatttt accacactat 540
 tcaaaatttg gattctctat gtagccaaat ggataatgag aacatgtata aaataataaa 600
 gaaataaaact acaatcataa aaagtaacta aaatagccaa ctgtcatgta aaaggatatgt 660
 agcaaaactga cag 673

<210> 124

<211> 370

<212> DNA

<213> Homo sapiens

<400> 124

ggggagagca gagcagagcg tgaagggtgct gggaggcctg cctcaaagtt ggcaaaaccc 60
 acagcgtctc agagctgctg tcatgttcta gttcctgctc ctgtgccagt gagaccagaa 120
 aaccaggcca ctcaaaagcc tcttgctgtg gctctctatg aatggaggct ggggcaaggg 180
 caggaccctt gggcctcagg cgagaagaag cagatttacc ctcagctttc ttctgtctg 240
 tggcattggc tgtgccccgg attttaggag ccttggccct tctcatccga gaagcacctc 300
 taacgcgaac cctccttcgc gcantatagc tgcaaagatg aaccgtcttt gaattgtaca 360
 aaagcttatg 370

<210> 125

<211> 896

<212> DNA

<213> Homo sapiens

<400> 125

```

cacaagacat agcagcagag gtgcacagcg ctcagcagtg acctcgcatg caccgaggct 60
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cctgccacct ataagcctcc gtttccatgt ctatacactg gggttcctag ctcacgggac 180
tgtcggggta attgagttag ttaacgtcta gggagcacct gtgacatgcc aacacagtgc 240
tgtcatttct gctgttggtc atttttctgc atctttatct gtaaggattt gaaagaatgt 300
acagttggaa acctgatgat ctcaagcaga aaatatcttt tcataacgct gagcatgaat 360
gacatgagaa tccatgtctg aagtgaatc gtatggatct gaagaatggg tgggtgccagc 420
cctggtggaa tggggtgcga aggagggagg atgagagcca gacgtttcag tctgggtgac 480
cctgccaccc agagccacct tccattaact gaggggtcca gggctccctc cgggccactt 540
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gcccattgta ggaatgtttc tgcaatggaa aaatacaaaa ccagaaagga agtgtgtggg 660
cctaatacgta catgtttatc aacattttac tgcaatgtat gacatttctg tgagcacaag 720
attagccttg gtattttttt ctgggaagta taaaagactt tttttttctt tcttttggtt 780
ttcaatttct ctctagagga atttaaaacc ggatatttcc atcttaaagt tcttgagcaa 840
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<210> 126
<211> 998
<212> DNA
<213> Homo sapiens

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<400> 126
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cctgccacct ataagcctcc gtttccatgt ctatacactg gggttcctag ctcacgggac 180
tgtcggggta attgagttag ttaacgtcta gggagcacct gtgacatgcc aacacagtgc 240
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gacatgagaa tccatgtctg aagtgaatc gtatggatct gaagaatggg tgggtgccagc 420
cctggtggaa tggggtgcga aggagggagg atgagagcca gacgtttcag tctgggtgac 480
cctgccaccc agagccacct tccattaact gaggggtcca gggctccctc caggccactt 540
gccactaaag ctcagctaaa gtctcaaaaa ggacacattc ggagccaagc aacaggcaca 600
gcccattgta ggaatgtttc tgcaatggaa aaatacaaaa ccagaaagga agtgtgtggg 660
cctaatacgta catgtttatc aacattttac tgcaatgtat gacatttctg tgagcacaag 720
attagccttg gtattttttt ctgggaagta taaaagactt tttttttctt tctttttggt 780
ttcaatttct ctctagagga atttaaaacc ggatatttcc atcttaaagt tcttgagcaa 840
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gcatggtgct aataactgaa actaaaaatc ggttggag 998

```

```

<210> 127
<211> 838
<212> DNA
<213> Homo sapiens

```

```

<220>

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<221> unsure
<222> (100)
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<212> DNA
<213> Homo sapiens

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<210> 130
 <211> 3063
 <212> DNA
 <213> Homo sapiens

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<213> Homo sapiens

<400> 131

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tgaggccacc acggcaccag cagaatacgt atttcttctc cttggctgca ctggtttgctc 240
gatctagttc agttcaactc agtggatggt ctctgaatgc ttactgggtg ccaggaccac 300
agagagatgt tagtcaactc ccagttctta gagccccaac acagataccc tcatcccagg 360
gccccagac acaccctctc gctggactca caactgtctg gagtttctgt ctgatggatg 420
gtgtgctttc atatgccact ggcttccttg gacatagatc agacaaaagc cccgggatct 480
gtttggtagc aggagaaatg aaggaagatg aaaaagcagg caggggaaggg ggtagtaaag 540
gactgagaga ggagggaggt ggctggagaa ggaaaaggaa cattgctcga tgctcccatc 600
tggtggcggc ctcaggaacc cacgggaacc tggaaggagg ctctttgtga gacctgggca 660
aaggatgggg cagctcgtcg atgatttttt tgtgtttcca ggcttcctgt gtgatcctgg 720
ccctccggcc gctagagaga ggattgggaa accccactgt cagctctgca tctgccccca 780
ctaccctcct ctgccctatt ctgtccctgc ccctccaagc tgaagaaggc ccttggtggg 840
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atgc 904
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<210> 132

<211> 442

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (393)

<223> a, c, g or t

<400> 132

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cactaccata gtggggaggg gtattcataa ctgttgggca tgccaggaaa ttcaggttcc 60
ccaggtagtc tacactggaa atatgggagg agccttggtta ccacctgata gagatgaaag 120
tcccaggtag ctactcaatc tctgtaacac cccagcagga aagttagggg aacttggttag 180
aggctggtga ggggtggcacc ccactcagcc tatgctggca taggcagagg tggggacaca 240
gttctttctg tgggtgtttag ctggagtaga acagttacag tatacaagtt ttctgtctta 300
ctaggttgcc cctttcctgg tctttttgct aaggagagga ggctttatct atttattatt 360
tctatttttg tcttactcac tggcattctg ggntgctggg tcttcagctc caagtctgag 420
atatatggat ccaaaagaaa ac 442
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<210> 133

<211> 530

<212> DNA

<213> Homo sapiens

<400> 133

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aatggtcaag aaactttgca tgttaagaaa gtttaagctt tgaaaccttg gaacaacaac 60
tatcatttca catgactcct caccttaaat catctaattg accatgaata ggtgcttttg 120
tcaatattaa atctagaaac atagatatag tatactctga tattaactag gaattataaa 180
tggtataaac tcttgtaa atgttccattt aaaaatattg tgaaactaaa atgattaata 240
cattaaataa atcaaaaattg tatattttta gtctggaagt gcattttcat attccaatta 300
taagtgtgta ttaagcgact gttttcctaa atgtcattat tttatatgaa aaatgccttc 360
attgtctgaa agcatttttac tgagttccga gggttgtgat tggacaaaac tgagcacaat 420
tttctcatct gaaaataatt tactgcta atgttgtgtaa gttagcta taaataatta 480
ttgtataaaa cgaaatataa tttggtggaa aacgctaaac tggcagatta 530

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<210> 134
<211> 300
<212> DNA
<213> Homo sapiens

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<220>
<221> unsure
<222> (289)
<223> a, c, g or t

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<400> 134
gctcgaggct gctaacagag aagcccctca tcctgtacga ccagtgcaga gaaacgatcc 60
cctcgaatgc ttcttagtgg agttaagaaa tttttgttg atcgtgcctt tgaactaagg 120
tcattttaagt atacaacaga tgttcctctg agggaaacag acttataaag tcaggaacac 180
agaagggacc taatggttta ctaggggtgg cgcattaagt tcatagcaat ttaactcctt 240
tcaatgctaa acaaaacaat gacgcaattt gatgcgcaat aaaaacttnt caaaacaatc 300

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<210> 135
<211> 696
<212> DNA
<213> Homo sapiens

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<400> 135
cttagaatct ttctctgcag caggctcggt tttctcctca aattcctctg tgtttggtta 60
agaacaatct gtttttccta cacttgtcaa gttgctcgaa attcctaatag cccattcatg 120
ttctttccaa ggattagcag agcactcctc gcttgccttt catcacactc cctccgcaca 180
tggggtaaaa attacatttg agtggaaccc tggctatcga tgctgtaaa atggagaact 240
ttggcgagac tcaacttcccc gggcctcaagt gggaaacagg cctgaaaaac aggcctgagc 300
atctttaatg atgtgcagaa agagaggggc ctctgcccc acgggcagat gtacacagct 360
gctaacagag aagcccctca tcctgtacga ccagtgcaga gaaacgatcc cctcgaatgc 420
ttcctagtgg agttaagaaa tttttgttg atcgtgcctt tgaactaagg tcattttaagt 480
atacaacaga tgttcctctg agggaaacag acttataaag tcaggaacac agaagggacc 540
taatggttta ctaggggtgg cgcattaagt tcatagcaat ttaactcctt tcaatgctaa 600
acaaaacaat gacgcaattt gatgcgcaat aaaaacttgt caaaacaatc aaaaaaaaaa 660
aaaaaaaaaa aaaaaaattc tgcgctcgca agaata 696

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<210> 136
 <211> 376
 <212> DNA
 <213> Homo sapiens

<400> 136
 agtctctctaaa aatctttgcca taggattttgg tctatacttt taaaaaccac tctttttttca 60
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 agtcctctcc aaataaggca aaacccagct ttatttttag taatgacttt cccaactgca 180
 agagggcaca agtccatgat ccagcattac agaaaccac caacttccag aaaagtttca 240
 acaactcata aagactcaca tgtgcatgca gacacaaaga cccatttttag ggaagaggcc 300
 ccaagacata gtctgaagcc ccagctgggc actttttctcc atgacaactc ttcagccagc 360
 ctgggacagt gcaacc 376

<210> 137
 <211> 1141
 <212> DNA
 <213> Homo sapiens

<400> 137
 ttggcacgag gagtctctaa aaatcttgcc ataggatttg gtctatactt ttaaaaacca 60
 ctcttttttc atgataaagc ctttcaactt gctctaaaag gcaacatagg aagagagaga 120
 cgatgcaggc cagtctcttc caaataaggc aaaacccagc tttattttta gtaatgactt 180
 tcccaactgc aagagggcac aagtccatga tccagcatta cagaaacca ccaacttcca 240
 gaaaagtttc aacaactcat aaagactcac atgtgcatgc agacacaaag acccatttta 300
 gggaagaggc cccaagacat agtctgaagc ccagctggg gccctttctc catgacaact 360
 cttcagccag cctggacagt gcaacccttg agtaacccca gctttgctta actgggacaa 420
 cccacctctc ctcatcctcc tggagaaatg cagttttgta ttttctgat gtttgatggg 480
 ccgcacatca gaggatctc gaaagtcata ttccctggga aatctgacca aaccgtaaga 540
 acgaaaagac tattggctaa ctttggggag accactgaga gctcagtcct cagcagagga 600
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 atctgtataa actgtggctg gttcacttta accctgagca ggagctgcct atgaaagagg 720
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 a 1141

<210> 138
 <211> 14
 <212> PRT
 <213> Homo sapiens

<400> 138

Met Gly Tyr Tyr Val Ser Asp Val Leu Leu Asp Leu Val Phe
1 5 10

<210> 139

<211> 18

<212> PRT

<213> Homo sapiens

<400> 139

Met Phe Leu Ser Ser Val Leu Tyr Cys Ser Leu Leu Ser Tyr Leu His
1 5 10 15

Leu Ser

<210> 140

<211> 449

<212> PRT

<213> Homo sapiens

<400> 140

Leu Phe Pro Arg Leu Glu Tyr Gly Gly Thr Ile Leu Ala Tyr Cys Asn
1 5 10 15

Leu His Leu Pro Gly Ser Ser Asn Pro Pro Thr Ser Ala Ser Gln Val
20 25 30

Ala Gly Thr Arg Asp Val Cys His His Thr Trp Leu Val Cys Val Cys
35 40 45

Val Cys Val Cys Val Cys Val Cys Val Cys Val Glu Met Arg Phe His
50 55 60

Tyr Val Ser Gln Ala Gly Leu Glu Leu Leu Ser Ser Ser Asp Pro Pro
65 70 75 80

Ile Ser Ala Ser Gln Ser Ala Gly Ile Ile Gly Ile Ser His Cys Thr
85 90 95

Trp Pro Trp His Asp Ser Phe Ile Ser Pro Gly Ala Glu Leu Pro Thr
100 105 110

Phe Ala Tyr Thr Trp Pro Gly Arg Pro Lys Ile Pro Leu Thr Ile Leu
115 120 125

Leu Leu Tyr Pro Gly Pro Gly Asp Val Leu Val Ala Phe Arg Thr Glu
 130 135 140

Leu Tyr Tyr Ala Ser Pro Ser Arg Gln Pro Gly Ala Ser Asp Thr Ala
 145 150 155 160

Arg Glu Ser Trp Gly Asn Gly Ala Val Pro Asp Phe Leu His Lys Glu
 165 170 175

Trp Leu Ile Phe Cys Pro Phe Ser Asn Gln Ser His Leu Trp Thr Thr
 180 185 190

Lys Ser Lys Trp Ala Glu Val Pro His Pro Gly Arg Arg Ala Glu Leu
 195 200 205

Pro Ala Met Lys Glu Gln Lys Ala Ala Asn Glu Asn Ser Gly Ser Val
 210 215 220

Thr Glu Pro Ser Ser Ser Ala Ser Ile Leu His Ala Arg Trp Asp Val
 225 230 235 240

Tyr Phe Leu Ile Asn Ala Leu Ile Tyr Phe Leu Arg Gln Ser Leu Arg
 245 250 255

Ser Val Ala Gln Ala Gly Val Gln Trp Cys Ser Gly Ala Asp Leu Gly
 260 265 270

Ser Leu Gln Pro Leu Pro Pro Gly Phe Lys Ala Phe Pro Cys Leu Ser
 275 280 285

Leu Leu Ser Ser Trp Asp Tyr Arg Ser Leu Pro Pro Cys Pro Ala Asn
 290 295 300

Phe Phe Val Phe Leu Ile Glu Thr Gly Phe His His Ile Ser Gln Ile
 305 310 315 320

Ser Ile Ser Ala Pro Cys Asp Pro Pro Ala Ser Ala Ser Gln Ser Ala
 325 330 335

Gly Ile Thr Gly Met Ser His Cys Ala Gln Pro Asp Val Tyr Tyr Tyr
 340 345 350

Val Ser Gly Tyr Ile Gly Lys Gln Asp Arg Cys Tyr Leu Phe Phe Phe
 355 360 365

Phe Phe Phe Phe Glu Thr Glu Ser Arg Thr Val Ala Gln Ala Gly Arg
 370 375 380

Leu Glu Arg Ser Gly Ala Ile Ser Thr Arg Arg Ser Leu Gln Pro Leu
 385 390 395 400

Pro Pro Gly Leu Lys Arg Phe Ser Cys Leu Ser Leu Leu Ser Ser Trp
 405 410 415

Asp Tyr Arg Cys Thr Pro Pro Arg Leu Ala His Phe Cys Thr Phe Ser
 420 425 430

Arg Asp Gly Val Ser Pro Cys Trp Ser Gly Trp Ser Leu Ser Pro Asp
 435 440 445

Leu

<210> 141
 <211> 11
 <212> PRT
 <213> Homo sapiens

<400> 141
 Met Ile Ala Ile Phe Leu Ser Phe Leu Phe Phe
 1 5 10

<210> 142
 <211> 40
 <212> PRT
 <213> Homo sapiens

<400> 142
 Met Asp Ala Lys Gln Asn Val Glu Lys Thr Tyr Cys Pro Ala Leu Ser
 1 5 10 15

Gly Ser Phe Gln Asp Ser Met Ile Tyr Trp Glu Arg Ser Asn Ser Leu
 20 25 30

Pro Leu Pro Ala Thr Cys Lys Pro
 35 40

<210> 143
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 143

Met Asp Gly Phe Val Lys Asp Gln Ala Thr Ser Ser Leu Pro Leu Ala
1 5 10 15

Thr

<210> 144

<211> 24

<212> PRT

<213> Homo sapiens

<400> 144

Met Ala Ser Lys Pro Asn Leu Leu Tyr Ile Leu His Tyr Cys Val Pro
1 5 10 15

Asp Thr Ala Asn Ser Ile Asn Glu
20

<210> 145

<211> 20

<212> PRT

<213> Homo sapiens

<400> 145

Met Ser Cys Ser Ser Ser Thr Gly Ala Gly Lys Tyr Asn Leu Lys Gly
1 5 10 15

Glu Ala Asn Leu
20

<210> 146

<211> 107

<212> PRT

<213> Homo sapiens

<400> 146

Tyr Tyr Phe Tyr Tyr Tyr Phe Phe Leu Arg Glu Ser Leu Thr Leu Ser
1 5 10 15

Leu Gly Leu Glu Cys Ser Gly Val Thr Met Ala His Gln Thr Ile Asn
20 25 30

Ile Pro Gly Ser Ser Asn Ser Pro Val Val Val Gly Thr Thr Gly Ala
35 40 45

Cys His Asn Ala Trp Leu Ile Phe Val Phe Leu Val Glu Thr Gly Leu
50 55 60

His His Val Gly Gln Ala Gly Leu Gly Leu Leu Ala Ser Ser Asp Leu
65 70 75 80

Ser Ala Leu Ala Ser Pro Ser Ala Gly Ile Ile Gly Leu Ser His Cys
85 90 95

Thr Gln Gln Lys Thr Asn Phe Leu Lys Gln Asn
100 105

<210> 147

<211> 18

<212> PRT

<213> Homo sapiens

<400> 147

Met Arg Ser Asn Phe Lys Lys Asn Ile Pro Ser Leu Glu Leu Phe Asn
1 5 10 15

Met Ser

<210> 148

<211> 99

<212> PRT

<213> Homo sapiens

<400> 148

Leu Phe Ser Phe Ala Arg Gln Asp Val Ser Met Leu Pro Arg Leu Glu
1 5 10 15

Tyr Ser Gly Gly Ile Ile Ala His Cys Lys Leu Asp Val Leu Asp Ser
20 25 30

Ser Glu Leu Thr Ala Leu Thr Ser Gln Ile Ala Gly Thr Thr Gly Val
35 40 45

His His His Ala Arg Leu Ile Phe Thr Met Phe Met Gln Met Gly Ser
50 55 60

Cys Ser Val Ala Gln Ala Cys Leu Lys Leu Leu Ala Ser Asp Asp Pro
65 70 75 80

Pro	Ala	Phe	Gly	Ser	Gln	Ser	Ala	Gly	Ile	Ala	Asp	Val	Ala	His	His
				85					90					95	

Ala Gln Pro

<210> 149
 <211> 64
 <212> PRT
 <213> Homo sapiens

Met	Ser	Val	Ser	Val	Leu	Pro	Val	Gln	Pro	Pro	Thr	Gly	Leu	Leu	Trp
1				5					10					15	

Gly	Arg	Ser	Pro	Pro	Gly	Ser	Pro	Ala	Glu	Leu	His	Gly	Leu	Pro	Cys
			20					25					30		

Leu	Thr	Arg	Asp	Asn	Arg	Asp	Phe	Gly	Ser	Pro	Ser	Ala	Asp	Ala	Phe
		35					40						45		

Val	Leu	Phe	Leu	Ile	Arg	Ser	Arg	Thr	Arg	Val	Gly	Arg	Arg	Val	Met
	50					55					60				

<210> 150
 <211> 23
 <212> PRT
 <213> Homo sapiens

Met	Val	Glu	Ser	Gly	Ile	Glu	Pro	Glu	Asn	Ser	Asp	Ser	Arg	Leu	Ser
1				5					10					15	

Cys	Phe	Ser	His	Arg	Ala	Val
			20			

<210> 151
 <211> 27
 <212> PRT
 <213> Homo sapiens

<400> 151

Met Ile Gln Arg Leu Leu Arg Gly His Asn Cys Ile Ser Ile Pro Asn
 1 5 10 15

Leu Phe Tyr Asn Glu Arg Ile Tyr Arg Ile His
 20 25

<210> 152
 <211> 26
 <212> PRT
 <213> Homo sapiens

<400> 152
 Met Pro Ser Ala Trp Lys Val Glu Asp Ser Gly Ile Arg Glu Arg Phe
 1 5 10 15

Arg Pro Gly Glu Met Glu Gly Ser Gly Thr
 20 25

<210> 153
 <211> 16
 <212> PRT
 <213> Homo sapiens

<400> 153
 Met Gln Val Trp Ser Gly Ile Phe Pro Asp Arg Gly Cys Cys Ser Cys
 1 5 10 15

<210> 154
 <211> 61
 <212> PRT
 <213> Homo sapiens

<400> 154
 Met Phe Met Trp His Arg Val Ala Asn Cys Leu Ser Leu Phe Val Ser
 1 5 10 15

Gln Asn Asp Phe Ala Asp Val Leu Gly Gln Ala Ser Pro Gly Trp Gln
 20 25 30

Pro Gly Ala Ala Val Lys Phe Ser Leu Thr Asn Ser Leu Pro Pro Phe
 35 40 45

Pro His His Gly Thr Leu Val Leu Cys Val Thr Thr Val
 50 55 60

<210> 155
 <211> 69
 <212> PRT
 <213> Homo sapiens

<400> 155
 Met Pro Cys Trp Lys Leu Leu Met Asn Arg Ala Trp Ser Leu Thr Leu
 1 5 10 15

 Gly Gly Gln Val Ile Tyr Arg Gly Asn Asp Asn Val Asn Pro Gly Pro
 20 25 30

 Trp Gly Ala Gly Ser Val Val Lys Glu Thr Gln His Thr Gln Gly Trp
 35 40 45

 Asp Pro Thr Gln Ala Lys Glu Gly Ser Thr Pro Ser Pro Asp Val Cys
 50 55 60

 Trp Asn Lys Glu Lys
 65

<210> 156
 <211> 51
 <212> PRT
 <213> Homo sapiens

<220>
 <221> UNSURE
 <222> (7)

<400> 156
 Met Lys Lys Lys Arg Phe Xaa Tyr Asn Ile Lys Ile Leu Val Asn Ser
 1 5 10 15

 Trp Leu Glu Leu Tyr Ser Glu Ile Thr Val Phe Lys Lys Asp Arg Pro
 20 25 30

 Leu Pro Leu Ser Leu Trp Leu Met Ala Leu Ile Ile Thr Arg Ile Pro
 35 40 45

 Lys Met Ser
 50

<210> 157
 <211> 126

<212> PRT
<213> Homo sapiens

<400> 157

Met Lys Leu Leu Ser Arg Lys Met Trp His Ser Leu Leu Gly Gly Gly
1 5 10 15

Trp Gly Gly Gly Lys Arg Glu Gly Arg Cys Pro Gln Leu Pro Pro Arg
20 25 30

Ser Ile Asn Lys Lys Arg Ile Asp Pro Pro Ala Pro Phe Asn Ser Pro
35 40 45

Pro Glu Leu Pro Pro Asn Ser Val Lys Thr Cys Gly Phe Asp Tyr Ser
50 55 60

Asp Glu Asn Asn Gly Cys Ser Val Glu Ile Cys Arg Ala His Thr His
65 70 75 80

Met Ile Ser Lys Ser Asn Ser Val Ala Thr Val Pro Ile Arg Lys Thr
85 90 95

His Gln Ala His Lys Arg Asp Pro Phe Ile Gln Arg Ser Leu Cys Ile
100 105 110

Pro Ile Ser Thr His Ser Thr Cys Ile Phe Lys Pro Ile Ser
115 120 125

<210> 158
<211> 84
<212> PRT
<213> Homo sapiens

<220>
<221> UNSURE
<222> (21)

<220>
<221> UNSURE
<222> (35)

<220>
<221> UNSURE
<222> (45)

<220>
<221> UNSURE

<222> (48)

<220>

<221> UNSURE

<222> (52)

<220>

<221> UNSURE

<222> (58)

<220>

<221> UNSURE

<222> (61)

<400> 158

Met Lys Arg Pro Pro Val Leu Leu Gln Glu Lys Pro Pro Glu Gly Asn
1 5 10 15

Gly Ala Val Ala Xaa Trp Pro Val Val Thr Pro Arg Arg Gly Arg Gly
20 25 30

Gln Gly Xaa Leu Gly Pro Gln Asn Ile Val Pro Val Xaa Ser Phe Xaa
35 40 45

Ala Gly Leu Xaa Leu Leu Arg Ser Leu Xaa Gly Ser Xaa Leu Asn Ser
50 55 60

Leu Leu Ser Ala Ser Trp Ala Val Val Ser Gly His Arg Leu Leu Leu
65 70 75 80

Thr Ser Pro Pro

<210> 159

<211> 23

<212> PRT

<213> Homo sapiens

<220>

<221> UNSURE

<222> (20)

<400> 159

Met Asp Ser Ala Lys Leu Gly His Ile Cys Tyr Thr Asp Asp Thr Ser
1 5 10 15

Leu Asp Val Xaa Ala Gln Thr

<210> 160
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 160
 Met Ile Asn Phe Ala Phe Val Val Cys His Lys Thr Thr Val Thr Val
 1 5 10 15
 Ser Leu Gln Leu Lys Ile Ile Gly Tyr Ala Thr Pro Glu Gly Asn Gln
 20 25 30
 His Ser Lys Cys Ile Pro Ser Ile Val Phe Ile Ile Cys Glu Arg Met
 35 40 45
 Ser His
 50

<210> 161
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 161
 Met Met Pro Thr Asp Asn Leu Leu Met Ile Ser Ser Ile Leu Lys Asp
 1 5 10 15
 Val Cys Lys Thr Gln Pro Leu Arg Lys Asp Ser Tyr His Cys Ser His
 20 25 30
 Arg His Pro Pro Gln Ser Tyr Thr Phe Pro Phe His Pro Pro Lys Gln
 35 40 45
 Ile Ile Gln His Ile Tyr Phe Ile Leu
 50 55

<210> 162
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 162
 Met Gly Ser Glu Arg Gly Ile Cys Gly Tyr

1 5 10

<210> 163

<211> 39

<212> PRT

<213> Homo sapiens

<400> 163

Met Leu Ser Arg Ser Ile Gln Asn Phe Asn Phe Lys Pro Ser Ser Arg
1 5 10 15

Ser Leu Leu Cys Tyr Leu Pro Ser Arg Pro Thr Thr Pro Val Ile Gln
20 25 30

Leu Ile His Ala Gln Ile Leu
35

<210> 164

<211> 77

<212> PRT

<213> Homo sapiens

<220>

<221> UNSURE

<222> (4)

<400> 164

Met Ala Lys Xaa Trp Leu Val Gly Asp Val Lys Arg Arg Pro Pro Asp
1 5 10 15

Gly Thr Ile Ser Gln Cys Gly Ala Pro Arg His Trp Ser His Ile Ala
20 25 30

Asn Ser Asn Pro Gly Pro Ala His Gly Leu Trp Val Met Leu Ile Thr
35 40 45

Tyr Phe Pro Arg Leu Leu Phe Pro Ser Cys Lys Val Trp Ile Thr Ile
50 55 60

Ala Pro Val Ser Pro Gly Cys Gly Glu Asp Tyr Met Ser
65 70 75

<210> 165

<211> 72

<212> PRT

<213> Homo sapiens

<220>

<221> UNSURE

<222> (10)..(30)

<400> 165

Met Leu Ile Leu Ile Ala Ser Lys Phe Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Ile Ala
20 25 30

Ser Ser Leu Val Ser Ser Leu Asp Leu Asn Glu Asn Ile Ser Val Tyr
35 40 45

Phe Thr Thr Lys Tyr Glu Leu Ala Ser Gly Cys Ala Leu Phe Tyr Phe
50 55 60

Tyr Thr Glu Cys Phe Lys Thr Asn
65 70

<210> 166

<211> 57

<212> PRT

<213> Homo sapiens

<400> 166

Met Ser Cys Ser Val Leu Leu Arg Lys Cys Tyr Asn Arg Ala Asp Gln
1 5 10 15

Phe His His Val Phe Ile Ile Thr Ile Leu Arg Trp Ala Leu Asn Thr
20 25 30

Ala Gln Gln Ala Cys His Phe His Leu Ile Ser Ser Ala Thr His Phe
35 40 45

Leu Leu Glu Leu Ala Ser Ser Asn Leu
50 55

<210> 167

<211> 121

<212> PRT

<213> Homo sapiens

<400> 167

20

25

30

Ser Trp Phe Phe Val Ser Pro Tyr Asp Asp Phe Thr Ile His Leu
 35 40 45

<210> 170

<211> 33

<212> PRT

<213> Homo sapiens

<400> 170

Met Lys Ala Ile Gln Ile Glu Glu Phe Phe Ala Ser Leu Leu Thr Gly
 1 5 10 15

Pro Gly Val Leu Asp Asn Phe Leu Ser Lys Glu Glu Lys Asn Ile Phe
 20 25 30

His

<210> 171

<211> 49

<212> PRT

<213> Homo sapiens

<400> 171

Met Asp Ala Cys Leu Gly Asp Cys Gln Pro Gln Gly Arg Ser Ile Asp
 1 5 10 15

Leu Lys Tyr Glu Gln Thr Asp Asp Phe Ile Ile Met Thr Leu Ala Gln
 20 25 30

Asn Arg Asn Phe Gly Thr Glu Lys Asn Lys His Met Glu Phe Leu Lys
 35 40 45

Gly

<210> 172

<211> 56

<212> PRT

<213> Homo sapiens

<400> 172

Met Ser Leu Lys His Asn Asn Ile Ile Phe Tyr Ser Gln Glu Glu Leu

1 5 10 15

Ile His Asp Arg Ile Ile Ser Leu Ala Ile Leu Tyr Ser Tyr Phe Val
20 25 30

Leu Phe Ser Ser Phe Pro Leu Pro Phe Asp Asp Gln Phe Leu Tyr Lys
35 40 45

Thr His Arg Tyr Ile Pro Phe Ile
50 55

<210> 173
<211> 79
<212> PRT
<213> Homo sapiens

<400> 173
Met Gly Glu Ile Gln Val Asp Leu Asn Cys His His Gln Ser Arg Pro
1 5 10 15

Arg Arg Arg Leu Leu Ser Arg Met Tyr Thr Trp Pro Leu Phe Ala Val
20 25 30

Ala Val Leu Leu Leu Arg Gly Glu Pro Ile Tyr Val Cys Leu Phe
35 40 45

Leu Leu Ser Leu Ala Ala Gln Gln Asn Pro Val Ile Tyr Met Asn Lys
50 55 60

Phe Leu Glu Val Lys Arg Asp Glu Lys Phe Thr Lys Ser Pro Thr
65 70 75

<210> 174
<211> 30
<212> PRT
<213> Homo sapiens

<400> 174
Met Val Leu Lys Gly Met Asn Ile Thr Glu Ile Glu Cys Phe Leu Gln
1 5 10 15

Val Glu Arg Leu His Ser Leu Ala Gly Thr Phe Cys Pro Ile
20 25 30

<210> 175

<211> 73
<212> PRT
<213> Homo sapiens

<400> 175
Met Ala Gly Ala Gly Gly Gln His His Pro Pro Gly Ala Ala Gly Gly
1 5 10 15
Ala Ala Ala Gly Ala Gly Ala Ala Val Thr Ser Ala Ala Ala Ser Ala
20 25 30
Gly Pro Gly Glu Asp Ser Ser Asp Ser Glu Ala Glu Gln Glu Gly Pro
35 40 45
Gln Lys Leu Ile Arg Lys Val Ser Thr Ser Gly Gln Ile Arg Thr Lys
50 55 60
Gly Phe Ile Met Leu Ala Arg Leu Val
65 70

<210> 176
<211> 33
<212> PRT
<213> Homo sapiens

<220>
<221> UNSURE
<222> (22)

<400> 176
Met Glu Ile Trp Leu Leu Ala Leu Ala Phe Lys Lys Leu Ser Arg Arg
1 5 10 15
Phe Tyr Val Gln Pro Xaa Leu Gly Thr Thr Val Leu Gly Asn Ile Arg
20 25 30

Arg

<210> 177
<211> 22
<212> PRT
<213> Homo sapiens

<400> 177
Met Leu Phe Ser Ile Leu Pro His Lys Gly Tyr Ile Leu Lys Asp Ile

1 5 10 15

Trp Leu Leu Asn Leu Asn
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<210> 178
<211> 45
<212> PRT
<213> Homo sapiens

<220>
<221> UNSURE
<222> (21)

<400> 178
Met Leu Leu Lys Gly Ser Asn Ser Lys Val Ser Arg Glu Tyr Ser Ala
1 5 10 15

Thr Phe His Lys Xaa Thr Glu Gln Ser Ser Arg Asn Phe Phe Arg Ala
20 25 30

Gly Ile Ala Leu Pro Pro Arg Ile Leu Thr Arg Phe Ser
35 40 45

<210> 179
<211> 38
<212> PRT
<213> Homo sapiens

<220>
<221> UNSURE
<222> (21)..(22)

<400> 179
Met Val Ala Thr Leu Trp Leu Asn Asn Phe Phe Arg Asn His Lys Asn
1 5 10 15

Ala Val Lys Asp Xaa Xaa Lys Arg Leu Lys Ala Ile Leu His Ser Leu
20 25 30

Val Tyr Met Lys Gly Asn
35

<210> 180
<211> 65

<212> PRT
 <213> Homo sapiens

 <400> 180
 Ser Trp Cys Ser Gly Leu Met Pro Ser Val Leu Asn Ser Ile Ser Cys
 1 5 10 15

 Val Pro Gly Lys Gly Arg Gly His Ser Leu Glu Trp Phe Pro Gly Glu
 20 25 30

 Lys Ser Gln Ser Asn Leu Cys Ser Ser Phe Leu Asn Lys Asn Arg Arg
 35 40 45

 Gln Asn Lys Gly His Arg Asp Lys Gly Leu Leu Thr Arg Leu Ala Asn
 50 55 60

 Gln
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<210> 181
 <211> 12
 <212> PRT
 <213> Homo sapiens

<400> 181
 Met Ala Phe Gly Ile Tyr Gln Cys Leu Gly Met Phe
 1 5 10

<210> 182
 <211> 23
 <212> PRT
 <213> Homo sapiens

<220>
 <221> UNSURE
 <222> (21)

<400> 182
 Met Leu Leu Thr Pro Gln Pro Trp Phe Phe Lys Val Ile Phe Val Asn
 1 5 10 15

 Tyr Lys Val Arg Xaa Tyr Lys
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<210> 183

<211> 29
<212> PRT
<213> Homo sapiens

<400> 183
Met Tyr Lys Ile Arg Lys Ser Arg Pro Glu Glu Asp Ser His Cys Leu
1 5 10 15
Gln Arg Thr Ala Lys Gly Lys Gly Phe Lys Ile Phe Asn
20 25

<210> 184
<211> 58
<212> PRT
<213> Homo sapiens

<400> 184
Met Leu Phe Leu Val Ser Ala Ala Leu Ser Ser Ser Leu Thr Asp Asn
1 5 10 15
Cys Arg Ala Gln Val Gly Arg Lys Asn Ser Val Cys Leu Leu Gly Ser
20 25 30
Ala Ser Ala Pro Val Ser Asn Thr Gly Val Thr Gly Gly Leu Leu Asn
35 40 45
Val Lys Tyr Lys Gly Ser Ser Phe Ser Leu
50 55

<210> 185
<211> 21
<212> PRT
<213> Homo sapiens

<400> 185
Met Gln Cys Gln Gln Leu Gly Phe Ser Glu Ile Ile Ser Arg Leu Gln
1 5 10 15
Ser Asn Gln Ile Ser
20

<210> 186
<211> 16
<212> PRT
<213> Homo sapiens

<400> 186

Met Lys Val Glu Arg Gln Phe Glu Ala Arg Ser Leu Thr Asp Ser Leu
1 5 10 15

<210> 187

<211> 104

<212> PRT

<213> Homo sapiens

<400> 187

Gln Ile Val Asn Phe Phe Phe Phe Leu Arg Trp Ser Leu Ala Leu Val
1 5 10 15

Thr Gln Ala Gly Val Gln Trp Pro Asp Leu Ser Ser Leu Gln Pro Leu
20 25 30

Pro Pro Gly Phe Lys His Phe Ser Cys Leu Ser Leu Pro Ser Ser Ala
35 40 45

Asp Leu Ser His Val Pro Leu Cys Pro Ala Asn Phe Ala Asn Phe Phe
50 55 60

Val Glu Met Gly Ser His Cys Val Thr Gln Ala Gly Leu Ala Val Leu
65 70 75 80

Ala Ala Ser Asp Ser Leu Thr Leu Ala Pro Gln Ser Ala Gly Ile Ile
85 90 95

Gly Met Ser His Gly Ala Cys Pro
100

<210> 188

<211> 41

<212> PRT

<213> Homo sapiens

<400> 188

Met Asp Arg Asp Leu Arg Pro Ala Pro Arg Asp Thr Lys Asp Gly Ser
1 5 10 15

Ser Val Ala Ser Ser Pro Asn Ser Ile Cys Pro Cys Leu Ala Arg Cys
20 25 30

Arg Glu Asp Phe Pro Thr Gln Glu Lys
35 40

85

186 187 188 41 104 187 188 41 188 41

<210> 189
 <211> 39
 <212> PRT
 <213> Homo sapiens

<400> 189
 Met Cys Leu Lys Gln Ile Leu Leu Glu Phe Pro Lys Arg Leu Asp Ile
 1 5 10 15
 Ile Asn Thr Phe Met Tyr Thr Trp His Pro Thr Arg Ala Val Cys Phe
 20 25 30
 Tyr Lys Lys Trp His Lys Asn
 35

<210> 190
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 190
 Phe Ser Ser Leu Met Lys Val Ile Thr Asp Trp Ala Gln Trp Leu Thr
 1 5 10 15
 Pro Val Ile Pro Val Leu Trp Glu Val Ala Val Val Gly Ala Leu Glu
 20 25 30
 Ala Arg Ser Leu Arg Pro Ala Trp Glu Thr Ala Thr Pro Phe Pro Phe
 35 40 45
 Ala Lys Lys Lys Lys
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<210> 191
 <211> 44
 <212> PRT
 <213> Homo sapiens

<400> 191
 Met Lys Ala Leu Cys Arg Leu Ser Val Leu Gln Met Leu Val Met Gly
 1 5 10 15
 Met Val Val Met Arg Lys Val Met Pro Val Thr Met Arg Arg Gly Asp
 20 25 30

Ala Val Asn Ser Ile His Pro Val Leu Gly Lys Tyr
35 40

<210> 192
<211> 53
<212> PRT
<213> Homo sapiens

<400> 192
Met Ser Leu Ser Leu Asp Ser Leu Ser Ser Ile Cys Leu Ile Val Asp
1 5 10 15

Leu Leu Asn Phe Ser Tyr Met Glu Phe Thr Glu Arg Leu Glu Cys Glu
20 25 30

Asp Gln His Phe Ser Ser Asn Leu Val Ser Phe Gln Ala Met Ile Ser
35 40 45

Ser Asp Ile Leu Pro
50

<210> 193
<211> 124
<212> PRT
<213> Homo sapiens

<400> 193
Met Arg Phe Leu Leu Pro Ala Ala Glu Lys Arg Lys Glu Asn Ser Ala
1 5 10 15

Gly Ala Pro Leu Ala Ser Pro Arg Val Thr Thr Met Phe Ser His Asp
20 25 30

Arg Gln Thr Gly Ala Leu Leu Leu Cys Asp Pro Pro Arg Ala Ala Glu
35 40 45

Ser Ile Leu Ile His Leu Gly Thr Pro Ala Gln Glu Glu Pro Gly Pro
50 55 60

Ser Pro Phe Arg Asp Val Asp Pro Leu Arg Gly Glu Phe Ser Ser Val
65 70 75 80

Asp Ser Asp Leu Leu Arg Leu Thr Ser Leu Gly Asn Pro Ala Ile Ala
85 90 95

Val Gly Asn Gln Val Ala Ala Trp Ala His Met Ala Ser Arg Arg Leu
100 105 110

Arg Leu Thr Ser Lys Arg His Ser Gln Arg Arg Lys
115 120

<210> 194
<211> 44
<212> PRT
<213> Homo sapiens

<400> 194
Met Phe Gln Arg Ile Ser Val Phe Ser Pro Ala Ile Thr Asn Lys Ser
1 5 10 15

Ser Gly Phe Ala Val Pro Pro Cys Lys Asn Tyr Lys Met Ala Glu Asn
20 25 30

Asn Ala Cys Phe Ile Ile Leu Val Lys Trp Ser Thr
35 40

<210> 195
<211> 27
<212> PRT
<213> Homo sapiens

<400> 195
Met Val Arg Arg His Ile Gly Ser Ala Val Arg Trp Pro Leu Phe Phe
1 5 10 15

Ser Asn Trp Ser Pro Tyr Ala Ser Cys Cys Asn
20 25

<210> 196
<211> 31
<212> PRT
<213> Homo sapiens

<400> 196
Met Thr Lys Ile Cys Phe Leu Asn Pro Thr Leu Ala Phe Lys Lys Ile
1 5 10 15

Gln Ser Lys Ile Phe Arg Leu Phe Leu Lys Asp Glu Lys Ala Ala
20 25 30

<210> 197
 <211> 25
 <212> PRT
 <213> Homo sapiens

<400> 197
 Met Tyr Met His Tyr Arg Asp Arg Lys Thr Gln Phe Asn Ile Lys Asn
 1 5 10 15
 Asn Ile Ser Leu Leu Asn Asn Ala Val
 20 25

<210> 198
 <211> 82
 <212> PRT
 <213> Homo sapiens

<220>
 <221> UNSURE
 <222> (80)

<400> 198
 Met Gly Met Val Ala Gly Ala Pro Thr Ala Trp Asn Pro Glu Asp Lys
 1 5 10 15
 Gly Cys Ile Leu Leu Gly Arg Gln Ser Tyr Glu Leu Asp Ala Met Trp
 20 25 30
 Pro Leu Gly Ala Leu Cys Arg Thr Ala Thr Ile Pro Ala Leu Leu Asp
 35 40 45
 Gly Glu Ser Glu Ala Leu Arg Ser Asp Glu Asn Gln Trp Gln Ser Gln
 50 55 60
 Met Tyr His Phe Ser His Thr Leu Thr Phe Phe Cys Phe Val Pro Xaa
 65 70 75 80
 Phe Phe

<210> 199
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 199

Met Pro Leu Arg Ser Lys Leu Val Asn Ile His Leu Phe Leu Thr Thr
1 5 10 15

Ala Thr Val Phe Ser Leu Tyr Thr Asn Tyr Thr Ala Ser Lys Phe Ser
20 25 30

Ser Phe Pro Ala Ser Asn Gln Glu Phe Asn Met Glu Val Gln
35 40 45

<210> 200

<211> 74

<212> PRT

<213> Homo sapiens

<400> 200

Met Gln Val Gln Arg Pro Thr Ser Trp Gly His Ile Ser Thr Ala Phe
1 5 10 15

Arg Ala Ala Pro Glu Ser Ser Arg Ser Phe Leu Ser Leu Leu Gln Thr
20 25 30

Phe Phe Glu Lys Trp Thr Phe His Pro His Val Pro Ser Val Trp Leu
35 40 45

Arg Lys Ser Thr Ser Gly Pro Trp Glu Gly Pro Gly Lys Pro Phe Pro
50 55 60

Leu Ser Leu Trp Cys Val Gly Ile Asn Leu
65 70

<210> 201

<211> 150

<212> PRT

<213> Homo sapiens

<400> 201

Met Asn Gly Lys Thr Gln Cys Lys Ala Pro Asn Asp Ser Val Arg Ser
1 5 10 15

Val Val Gly Arg Thr Asn Thr Trp Ile His Arg Thr Glu Ile Asp Asn
20 25 30

Leu Ala Cys Asp Glu Leu Lys Ala Asp Ile Leu Asn Trp Trp Arg Lys
35 40 45

Glu Tyr Leu Leu Ile Ile Gly Ile Thr Ala Phe Leu Phe Leu Phe Arg
 50 55 60

Gly Ala Ile Leu Lys Asp Lys Gln Pro Thr Gly Lys Leu Gly Gln His
 65 70 75 80

Asn Thr Asn Arg Gln Cys Thr Val Glu Ile Tyr Lys Trp Pro Ile Asn
 85 90 95

Met Glu Met Phe Asp Phe Val Arg Asn Gln Gly Asn Ser Ser Glu Asn
 100 105 110

Lys Val Leu Ser Ile Thr Arg Leu Val Lys Thr Lys Gln Asn Asn Leu
 115 120 125

Ser Ile Leu Ile Pro Leu Thr Val Gly Lys Gly Leu Glu Lys Trp Val
 130 135 140

Leu Leu Trp Arg Val Asn
 145 150

<210> 202
 <211> 33
 <212> PRT
 <213> Homo sapiens

<400> 202
 Met Ala Ala Arg Leu Pro Thr Leu Thr Arg Tyr Lys Phe Ser Ser Leu
 1 5 10 15

Gly Ser Trp Tyr Lys Ser Gln Pro Phe Gln Leu Val Met Asn Glu Arg
 20 25 30

Ala

<210> 203
 <211> 68
 <212> PRT
 <213> Homo sapiens

<220>
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 <222> (9)

<220>

<221> UNSURE

<222> (23)

<220>

<221> UNSURE

<222> (42)

<400> 203

Met Gln His His Phe Ser Leu His Xaa Pro Cys Arg Asp Leu Pro Gly
1 5 10 15

Ala Gln Lys Lys Lys Asp Xaa Ile Cys Cys Ser Gln Glu Met Leu His
20 25 30

Ile Val His Leu Pro Ala Ser Tyr Arg Xaa Tyr Lys Tyr Glu Ser Thr
35 40 45

Asn Ser Leu Gly Phe Asn Asn Val Thr Tyr Ile Tyr His Lys Val Ala
50 55 60

Ile Pro Asp His
65

<210> 204

<211> 34

<212> PRT

<213> Homo sapiens

<400> 204

Met Thr Ala Ser Leu Cys Leu Gln Pro Lys Pro Leu Leu Ser Thr Asn
1 5 10 15

Pro Tyr Ala His Gly Ala Glu Thr Ala Gln Pro Ser Val Lys Glu Pro
20 25 30

Gly Phe

<210> 205

<211> 115

<212> PRT

<213> Homo sapiens

<400> 205

Leu Ala Ala Ile Tyr Gly Phe Leu Ser Phe Phe Phe Phe Phe Phe
1 5 10 15

Ala Asp Lys Val Ser Leu Ser Pro Arg Leu Glu Ala Cys Asn Gly Thr
 20 25 30

Ile Thr Ala His Gly Ser Phe Asp Phe Leu Gly Ser Gly Asp Pro Pro
 35 40 45

Thr Ser Ala Ser Ala Ile Ala Gly Thr Gly Ala His His His Ile Ala
 50 55 60

Leu Leu Phe Val Phe Phe Val Glu Val Gly Ser Arg Tyr Val Ala Gln
 65 70 75 80

Ala Ala Leu Gln Leu Leu Arg Ser Gly Asp Leu Pro Ala Ser Ala Ser
 85 90 95

Gln Ser Thr Gly Ile Thr Gly Thr Ser His Cys Ser Trp Pro Tyr Met
 100 105 110

Val Leu Phe
 115

<210> 206
 <211> 28
 <212> PRT
 <213> Homo sapiens

<400> 206
 Met Phe Ala Ser Tyr Lys Leu Asn Asn Tyr Ser Tyr Pro Val Leu Val
 1 5 10 15

Leu Tyr Ala Thr Leu Phe Pro His His Met Ile Phe
 20 25

<210> 207
 <211> 68
 <212> PRT
 <213> Homo sapiens

<400> 207
 Met Ser Leu Ser Pro Ile Tyr Phe Asn Ala Ser Phe Val Ile Ser Glu
 1 5 10 15

Tyr Met Ser Asn Phe Tyr Phe Asn Ser Thr Cys His Leu Cys Tyr Glu
 20 25 30

Asp Trp Lys Pro Ser Phe Ser Pro Gly Leu Gly Glu Ala Lys Cys Phe
 35 40 45

Thr Tyr Leu Glu Cys Leu Cys His Ser Asn Phe Gln Leu Val Cys Asn
 50 55 60

Cys Ser Phe Asn
 65

<210> 208
 <211> 39
 <212> PRT
 <213> Homo sapiens

<400> 208
 Met Asn Glu Tyr Val Asn Glu Cys Leu Asn Glu Trp Ser Gly Met Asn
 1 5 10 15

Pro Val Ser Pro Val Leu Cys Pro Pro Leu Ile His Ser Val Thr Leu
 20 25 30

Gly Arg Thr Phe Asn His Ser
 35

<210> 209
 <211> 45
 <212> PRT
 <213> Homo sapiens

<400> 209
 Met Pro Phe Pro Ser His Ser Leu Leu Leu His Phe Phe Pro Pro Glu
 1 5 10 15

Arg Leu Ser Ser Gly Pro Tyr Glu Ile Ala Ser Ile Gln Leu Phe Phe
 20 25 30

Ile Leu Lys Gly Asp Asn Ser Ile Ser Phe Asn Leu Asn
 35 40 45

<210> 210
 <211> 70
 <212> PRT
 <213> Homo sapiens

<400> 210

Leu Gly Ser Leu Gln Pro Pro Pro Pro Gly Phe Lys Ala Phe Ser Cys
 1 5 10 15
 Leu Ser Leu Pro Ser Ser Trp Asp His Ala Arg Pro Pro Ala Cys Leu
 20 25 30
 Ala Lys Phe Cys Ile Phe Ser Lys Asp Arg Val Ser Pro Cys Trp Pro
 35 40 45
 Gly Trp Ser Ala Thr Ala Asp Leu Val Ile Arg Pro Pro Leu Pro Pro
 50 55 60
 Lys Val Leu Gly Leu Gln
 65 70

<210> 211
 <211> 24
 <212> PRT
 <213> Homo sapiens

<400> 211
 Met Leu Asn Cys Leu Phe Cys Ile Leu Ala Ile Val Lys Ser Ala Thr
 1 5 10 15
 Asn Arg Ile Ala Asn Val Ser Ser
 20

<210> 212
 <211> 492
 <212> PRT
 <213> Homo sapiens

<400> 212
 Thr Lys Phe Ile Lys Leu Ser Lys Tyr Lys Asn Ile Ile Lys Lys Ser
 1 5 10 15
 Ala Ala Phe Leu Tyr Ile Ser Asn Tyr Leu Lys Met Lys Phe Lys Lys
 20 25 30
 Ile Pro Ser Thr Ala Leu Ala Phe Glu Val Asn Leu Thr Lys Lys Leu
 35 40 45
 Lys His Leu Thr Phe Tyr Ser Lys Glu His Tyr Thr Asn Ala Val Thr
 50 55 60
 His Lys Trp Asn Asn Ile Thr His Ser Ala Thr Gly Ile Phe Asn Ser

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	325		330		335
Tyr Phe Ser Arg Lys Tyr Ile His Met Ala Asn Ala Tyr Ile Ala Lys					
	340		345		350
Cys Ser Met Ser Ile Ile Thr Lys Lys Ala Ser Gln Lys Arg Lys Asn					
	355		360		365
Lys Thr Arg Arg Tyr Gln Leu Ile Pro Val Arg Met Thr Leu Ile Lys					
	370		375		380
Lys Lys Lys Arg Trp Ala Arg Cys Glu Glu Lys Gly Arg Leu Ala His					
385		390		395	400
Cys Trp Phe Glu Cys Lys Ala Arg Gln Pro Leu Ala Lys Thr Lys Ala					
	405		410		415
Arg Phe Leu Lys Lys Leu Lys Leu Pro Cys His Thr Ala Ile Ala Leu					
	420		425		430
Leu Asp Ile Tyr Pro Lys Gln Ile Lys Ser Glu Ala Arg Asn Ile Cys					
	435		440		445
Asn Ser Val Tyr Ala Leu Phe Thr Ile Ala Lys Ile Gln Asn Lys Ser					
	450		455		460
Leu Thr Ser Asn Glu Ala Met Lys Thr Met Trp Ala Ile Tyr Thr Thr					
465		470		475	480
Glu Tyr Tyr Phe Ala Asn Lys Lys Ile Pro Phe Leu					
	485		490		

<210> 213
 <211> 37
 <212> PRT
 <213> Homo sapiens

<400> 213
 Met Met Leu Pro Pro Asn Leu Glu Asn Thr Gly Ser His Ile Ser Pro
 1 5 10 15
 Glu Trp Arg Phe Met Arg Arg Asn Thr Asn Glu Lys Lys Lys Trp Ser
 20 25 30
 Met Lys Pro Glu Leu
 35

<210> 214
 <211> 67
 <212> PRT
 <213> Homo sapiens

<400> 214
 Met Cys His Glu Leu Trp Pro Cys Leu Tyr Phe Tyr Phe Asn Arg Asn
 1 5 10 15

 His Leu Phe Lys Gln Lys Val Leu His Leu Asn Cys His Asn Cys Val
 20 25 30

 Cys Val Ile Asn Ile Ser Tyr Phe Ile Gln Ala Gln Pro Thr Leu Ala
 35 40 45

 Phe Ile Asn Ala His Asn Gln Glu Ile Asn Leu Ile Leu Thr Lys Asn
 50 55 60

 Tyr Pro Ser
 65

<210> 215
 <211> 12
 <212> PRT
 <213> Homo sapiens

<400> 215
 Met Ser His Asn Ile Asp Leu Leu Gly Lys Asp Phe
 1 5 10

<210> 216
 <211> 39
 <212> PRT
 <213> Homo sapiens

<400> 216
 Met Arg Glu Cys Gly Glu Ser Ile Cys Pro Ser Leu Ala Gly His Arg
 1 5 10 15

 Leu Ser Arg Gly Ala Val Glu Val Glu Thr Thr Gln Asp Ser Glu Ser
 20 25 30

 Pro Gln Val His Pro Gly Pro
 35

<210> 217
 <211> 89
 <212> PRT
 <213> Homo sapiens

<400> 217
 Met Leu Leu Ser Cys Cys Ser Gln Asn Gln Lys Met Ala Ser Arg Ser
 1 5 10 15
 Ala Gln Ser Ser Gln Glu Gln Met Leu Arg Val Thr Leu Glu Ser Phe
 20 25 30
 Cys Cys Leu His Ile Gln Thr Ile Thr Ile Ser Leu Ile Ser Leu Leu
 35 40 45
 Tyr Ile Phe His Met Cys Pro Leu Leu Ser Ile Cys Thr Leu Ile Ser
 50 55 60
 Glu Gly His Gln His Leu Ser Ser Glu Cys Leu Gln Tyr Leu Leu Thr
 65 70 75 80
 Gly His Gln Ala Ser Ser Phe Ala Pro
 85

<210> 218
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 218
 Met Asp Cys Thr Ala Val Gly Arg Gly Thr Arg Arg Ala Ser Ala Pro
 1 5 10 15
 Thr Cys Glu Arg Arg Pro Arg Gly Leu Arg Cys Arg Arg Pro Val Ala
 20 25 30
 Pro Pro Pro Arg Ala Leu Ser Ala Val Asn Leu Gly Arg Arg Arg Trp
 35 40 45
 Gly Ser Gly Lys Arg Arg Ala Gln
 50 55

<210> 219
 <211> 36
 <212> PRT

<213> Homo sapiens

<400> 219

Ala Ala Ala Ala Pro Pro Pro Ala Pro Pro His His Gly Ala Ala Ala
1 5 10 15

Pro Pro Pro Gly Gln Leu Ser Pro Ala Ser Pro Ala Thr Ala Ala Pro
20 25 30

Pro Ala Pro Ala
35

<210> 220

<211> 85

<212> PRT

<213> Homo sapiens

<400> 220

Met Ala Gly Pro Arg Cys Pro Arg Lys Gly Arg Thr Asn Thr Cys Val
1 5 10 15

Cys Ser Ala Asn Pro Leu Glu Ala Val Gln Lys Pro Leu Ala Ala Gly
20 25 30

Pro Thr Arg Arg Gly Gly Gly Trp Asp Pro Ala Gly Ala Gly Ala Ala
35 40 45

Trp Leu His Gly Leu Tyr Ser Val Tyr Thr Ala Gly Gly Arg Gly Gly
50 55 60

Arg Leu Arg Phe Leu Arg Tyr Gln Ser Arg Arg Phe Gly His Leu Arg
65 70 75 80

Ala Pro Ala Ala Gly
85

<210> 221

<211> 376

<212> PRT

<213> Homo sapiens

<400> 221

Met Met Ala Ser Tyr Pro Glu Pro Glu Asp Ala Ala Gly Ala Leu Leu
1 5 10 15

Ala Pro Glu Thr Gly Arg Thr Val Lys Glu Pro Glu Gly Pro Pro Pro

275

280

285

His Pro His Pro His Pro His Ala His His Leu His Ala Ala Ala Ala
 290 295 300

Pro Pro Pro Ala Pro Pro His His Gly Ala Ala Ala Pro Pro Pro Gly
 305 310 315 320

Gln Leu Ser Pro Ala Ser Pro Ala Thr Ala Ala Pro Pro Ala Pro Ala
 325 330 335

Pro Thr Ser Ala Pro Gly Leu Gln Phe Ala Cys Ala Arg Gln Pro Glu
 340 345 350

Leu Ala Met Met His Cys Ser Tyr Trp Asp His Asp Ser Lys Thr Gly
 355 360 365

Ala Leu His Ser Arg Leu Asp Leu
 370 375

<210> 222

<211> 19

<212> PRT

<213> Homo sapiens

<400> 222

Met Gln Tyr Phe Ser Leu Pro Val Leu Thr Leu Leu Met Val Pro Phe
 1 5 10 15

Ile Phe Ile

<210> 223

<211> 30

<212> PRT

<213> Homo sapiens

<400> 223

Met Pro Leu Lys His Ile Lys Phe Lys Asn Leu Phe Leu Leu Ala Leu
 1 5 10 15

Glu Ile Leu Trp Asn Phe Thr Trp Asn Leu Ile Leu Gly Arg
 20 25 30

<210> 224

<211> 52
<212> PRT
<213> Homo sapiens

<400> 224
Met Leu Ile Met Lys Glu Thr His Glu Gln Leu Ser Glu Glu Ser Gly
1 5 10 15
Glu Val Gly Met Ile Ser Glu His Arg Gly Gly Ser Pro Ala Trp Gly
20 25 30
Leu Pro Asn Pro Asp Ala Gln Lys Phe Leu Ser Arg Pro His Tyr Thr
35 40 45
Gly Met Ile Asp
50

<210> 225
<211> 52
<212> PRT
<213> Homo sapiens

<400> 225
Met Gly Leu Asn Pro Gly Val Cys Leu Glu Pro Gln Leu Val Cys Asp
1 5 10 15
Thr Asp His His Phe Leu Lys Thr Ile Tyr Lys Asn Lys Thr Arg Cys
20 25 30
Met Lys Phe Arg Phe Trp Lys Lys Val Gln Val Phe Met Asn Ile Ser
35 40 45
Glu Leu Pro Lys
50

<210> 226
<211> 19
<212> PRT
<213> Homo sapiens

<220>
<221> UNSURE
<222> (14)

<220>
<221> UNSURE

<222> (18)

<400> 226

Met Asp Asn Glu Asn Gln Asn Ile Lys Lys Glu Lys Lys Xaa Lys Lys
1 5 10 15

Lys Xaa Lys

<210> 227

<211> 75

<212> PRT

<213> Homo sapiens

<400> 227

Phe Phe Phe Leu Arg Gln Ser Leu Ala Leu Ser Pro Arg Leu Glu Cys
1 5 10 15

Ser Gly Ala Ile Ser Ala His Cys Lys Leu Arg Leu Pro Gly Ser Cys
20 25 30

His Phe Pro Ala Ser Ala Ser Gln Val Ala Glu Thr Thr Gly Thr Arg
35 40 45

His Asn Ala Arg Val Ile Phe Cys Ile Leu Val Glu Thr Gly Phe His
50 55 60

Arg Val Ser Gln Asp Gly Leu Asp Leu Leu Thr
65 70 75

<210> 228

<211> 95

<212> PRT

<213> Homo sapiens

<400> 228

Met Arg Arg Ala Lys Ala Pro Lys Ile Arg Gly Thr Ala Asn Ala Thr
1 5 10 15

Asp Arg Lys Lys Ala Glu Gly Lys Ser Ala Ser Ser Arg Leu Arg Pro
20 25 30

Arg Gly Pro Ala Leu Ala Pro Ala Ser Ile His Arg Glu His Thr Gln
35 40 45

Glu Ala Phe Glu Trp Pro Gly Phe Leu Val Ser Leu Ala Gln Arg Gln

50

55

60

Glu Leu Glu His Glu Arg Ser Ser Glu Thr Leu Trp Val Leu Pro Thr
 65 70 75 80

Leu Arg Gln Ala Ser Gln His Leu His Ala Leu Leu Cys Ser Pro
 85 90 95

<210> 229

<211> 98

<212> PRT

<213> Homo sapiens

<400> 229

Met Val Gly Ala Ser Pro Gly Gly Met Gly Cys Glu Gly Gly Arg Met
 1 5 10 15

Arg Ala Arg Arg Phe Ser Leu Gly Asp Pro Ala Thr Gln Ser His Leu
 20 25 30

Pro Leu Thr Glu Gly Ser Arg Ala Pro Ser Gly Pro Leu Ala Thr Lys
 35 40 45

Ala Gln Leu Lys Ser Gln Lys Gly His Ile Arg Ser Gln Ala Thr Gly
 50 55 60

Thr Ala His Val Arg Asn Val Ser Ala Met Glu Lys Tyr Lys Thr Arg
 65 70 75 80

Lys Glu Val Cys Gly Pro Asn Arg Thr Cys Leu Ser Thr Phe Tyr Cys
 85 90 95

Asn Val

<210> 230

<211> 84

<212> PRT

<213> Homo sapiens

<400> 230

Met Asp Thr Thr Asn Asn Gln Ile Asn Leu Tyr Ile His Thr Lys Phe
 1 5 10 15

Phe Leu Lys Ile Lys Val Asn Thr Ser Ile Ser Lys Arg Leu Phe Ser
 20 25 30

Pro Tyr Phe Asn Ile His Ile Phe Cys Met Phe Ile Tyr Val His Gly
 35 40 45

Gly Cys Phe Tyr Ile Pro Arg Lys Phe Arg Cys Tyr Ser Arg Arg Leu
 50 55 60

Ser Ile Ile His Thr Ala Val Lys Trp Ser Pro Ala Leu Ser Arg His
 65 70 75 80

Pro Thr Ala Gln

<210> 231
 <211> 924
 <212> PRT
 <213> Homo sapiens

<400> 231
 Gly Arg Leu Thr Phe Arg Asp Val Ala Ile Glu Phe Ser Leu Ala Glu
 1 5 10 15

Trp Lys Cys Leu Asn Pro Ser Gln Arg Ala Leu Tyr Arg Glu Val Met
 20 25 30

Leu Glu Asn Tyr Arg Asn Leu Glu Ala Val Asp Ile Ser Ser Lys Arg
 35 40 45

His Asp Glu Gly Gly Leu Val Asn Arg Ala Arg Gln Tyr Arg Ser Asp
 50 55 60

Pro His Arg Asp Ile Ala Lys Ile Ser Lys Leu Ser His Trp Arg Phe
 65 70 75 80

Leu Leu Pro Gly Asn Ala Glu Arg Asn Ser Ala Tyr Ala Val Ser Val
 85 90 95

Ser Arg Arg Glu Arg Asn Gly His Glu Ala Pro Met Thr Lys Ile Lys
 100 105 110

Lys Leu Thr Gly Ser Thr Asp Gln His Asp His Arg His Ala Gly Asn
 115 120 125

Lys Pro Ile Lys Asp Gln Leu Gly Ser Ser Phe Tyr Ser His Leu Pro
 130 135 140

Glu Leu His Ile Ile Gln Ile Lys Gly Lys Ile Gly Asn Gln Phe Glu

				405					410					415			
His	Lys	Ser	Ser	Leu	Val	Cys	His	His	Arg	Leu	His	Gly	Gly	Glu	Lys		
			420					425					430				
Ser	Tyr	Lys	Cys	Lys	Val	Cys	Asp	Lys	Ala	Phe	Ala	Trp	Asn	Ser	His		
		435					440					445					
Leu	Val	Arg	His	Thr	Arg	Ile	His	Ser	Gly	Gly	Lys	Pro	Tyr	Lys	Cys		
	450					455					460						
Asn	Glu	Cys	Gly	Lys	Thr	Phe	Gly	Gln	Asn	Ser	Asp	Leu	Leu	Ile	His		
465					470					475					480		
Lys	Ser	Ile	His	Thr	Gly	Glu	Gln	Pro	Tyr	Lys	Tyr	Glu	Glu	Cys	Glu		
				485					490					495			
Lys	Val	Phe	Ser	Cys	Gly	Ser	Thr	Leu	Glu	Thr	His	Lys	Ile	Ile	His		
			500					505					510				
Thr	Gly	Glu	Lys	Pro	Tyr	Lys	Cys	Lys	Val	Cys	Asp	Lys	Ala	Phe	Ala		
		515					520					525					
Cys	His	Ser	Tyr	Leu	Ala	Lys	His	Thr	Arg	Ile	His	Ser	Gly	Glu	Lys		
	530					535					540						
Pro	Tyr	Lys	Cys	Asn	Glu	Cys	Ser	Lys	Thr	Phe	Arg	Leu	Arg	Ser	Tyr		
545				550						555					560		
Leu	Ala	Ser	His	Arg	Arg	Val	His	Ser	Gly	Glu	Lys	Pro	Tyr	Lys	Cys		
				565					570					575			
Asn	Glu	Cys	Ser	Lys	Thr	Phe	Ser	Gln	Arg	Ser	Tyr	Leu	His	Cys	His		
			580					585					590				
Arg	Arg	Leu	His	Ser	Gly	Glu	Lys	Pro	Tyr	Lys	Cys	Asn	Glu	Cys	Gly		
		595					600					605					
Lys	Thr	Phe	Ser	His	Lys	Pro	Ser	Leu	Val	His	His	Arg	Arg	Leu	His		
	610				615						620						
Thr	Gly	Glu	Lys	Ser	Tyr	Lys	Cys	Thr	Val	Cys	Asp	Lys	Ala	Phe	Val		
625				630						635					640		
Arg	Asn	Ser	Tyr	Leu	Ala	Arg	His	Thr	Arg	Ile	His	Thr	Ala	Glu	Lys		
				645					650					655			
Pro	Tyr	Lys	Cys	Asn	Glu	Cys	Gly	Lys	Ala	Phe	Asn	Gln	Gln	Ser	Gln		

660	665	670
Leu Ser Leu His His Arg Ile His Ala Gly Glu Lys Leu Tyr Lys Cys		
675	680	685
Glu Thr Cys Asp Lys Val Phe Ser Arg Lys Ser His Leu Lys Arg His		
690	695	700
Arg Arg Ile His Pro Gly Lys Lys Pro Tyr Lys Cys Lys Val Cys Asp		
705	710	715
Lys Thr Phe Gly Ser Asp Ser His Leu Lys Gln His Thr Gly Leu His		
	725	730
Thr Gly Glu Lys Pro Tyr Lys Cys Asn Glu Cys Gly Lys Ala Phe Ser		
	740	745
Lys Gln Ser Thr Leu Ile His His Gln Ala Val His Gly Val Gly Lys		
	755	760
Leu Asp Ala Cys Asn Asp Cys His Lys Val Phe Ser Asn Ala Thr Thr		
	770	775
Ile Ala Asn His Trp Arg Ile Tyr Asn Glu Ala Arg Ser Asn Lys Cys		
785	790	795
Asn Lys Cys Gly Lys Phe Phe Arg His His Ser Tyr Ile Ala Val His		
	805	810
Ala His Thr His Thr Gly Glu Lys Pro Tyr Lys Cys His Asp Cys Gly		
	820	825
Lys Val Phe Ser Gln Ala Ser Ser Tyr Ala Lys His Arg Arg Ile His		
	835	840
Thr Gly Glu Lys Pro His Met Cys Asp Asp Cys Gly Lys Ala Phe Thr		
	850	855
Ser Cys Ser His Leu Ile Arg His Gln Arg Ile Pro Thr Gly Gln Lys		
865	870	875
Ser Tyr Lys Cys Gln Lys Cys Gly Lys Val Leu Ser Pro Arg Ser Leu		
	885	890
Leu Ala Glu His Gln Lys Ile His Phe Ala Asp Asn Cys Ser Gln Cys		
	900	905
Ser Glu Tyr Ser Lys Pro Ser Ser Ile Asn Ala His		

<210> 232
 <211> 322
 <212> PRT
 <213> Homo sapiens

<220>
 <221> UNSURE
 <222> (291)..(299)

<400> 232

Met Leu Ala Ala Cys Leu Met Thr Pro Asp His Pro Thr Ala Gly Asn
 1 5 10 15

Gln Pro Leu Arg Thr Pro Ser His Val Pro Gly Thr Cys Arg Cys Arg
 20 25 30

Ser Gln His Pro Ala Val Trp Ala Leu Tyr Asp Asp Gln Leu Gly Asn
 35 40 45

Val Gly Asp His His Val Ala Thr His Met Val Gly Pro His Asp His
 50 55 60

Ile Leu Pro Ile Leu Gln Leu Leu Leu Pro Gly Asp Leu Arg Pro Gly
 65 70 75 80

Pro Ala His His Ile Thr Glu Glu Thr His Cys Leu Thr His Gly Asp
 85 90 95

Arg Leu Val His Thr Val Val Glu Gln Arg Arg Asp Arg His Val Gln
 100 105 110

Leu Arg Gly Leu Trp Gly Gly Cys Ala Gly Val His Gly Gly Leu Arg
 115 120 125

Cys Trp Gly Ala Gly Val Gly Pro Gly Glu Val Ile Ala Ala Gly Tyr
 130 135 140

Asn Gly Gln Cys Asp Ala Phe Gly Ala Gly Leu Gly Ile His Val Ala
 145 150 155 160

Ala Val Ile Val Gly Glu Ala Val Arg Gly Ala Gly Lys Ala Gly Leu
 165 170 175

Leu Leu Thr Ala Val Phe Ala Leu Thr His Gly Leu Ala Ile Pro Asp
 180 185 190

Val Thr Leu Arg Ala Leu Leu Gln Thr His Glu Val Val Thr Cys Gly
 195 200 205

Leu Leu Gly His Ala His Trp Ala Leu Leu Pro Phe His Val His Val
 210 215 220

Ala Gly Arg His Ala Ala Leu Gly Pro Thr Tyr Val Gly Ala Ala Leu
 225 230 235 240

Leu Ile Gly Leu Thr Leu Leu Val Arg Leu Thr Leu Pro Pro Ala Gly
 245 250 255

Ala Leu Cys Val His Pro Glu Val Gly Ile His Val Val Gly Ala Asp
 260 265 270

Ala Gly Val Gly Ile Ala Asp Gly Arg Gln Arg Gln Ala Ser Arg Gly
 275 280 285

His Pro Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys His Leu Leu Pro
 290 295 300

Ala Arg Pro Glu Pro Ala Thr Pro Trp Gly Pro His Gly Ala Gly Trp
 305 310 315 320

Gly Gly

<210> 233

<211> 503

<212> PRT

<213> Homo sapiens

<400> 233

Glu Cys Glu Thr Tyr Glu Lys Cys Cys Pro Asn Val Cys Gly Thr Lys
 1 5 10 15

Ser Cys Val Ala Ala Arg Tyr Met Asp Val Lys Gly Lys Lys Gly Pro
 20 25 30

Val Gly Met Pro Lys Glu Ala Thr Cys Asp His Phe Met Cys Leu Gln
 35 40 45

Gln Gly Ser Glu Cys Asp Ile Trp Asp Gly Gln Pro Val Cys Lys Cys
 50 55 60

Lys Asp Arg Cys Glu Lys Glu Pro Ser Phe Thr Cys Ala Ser Asp Gly

65		70		75		80
Leu Thr Tyr Tyr Asn Arg Cys Tyr Met Asp Ala Glu Ala Cys Ser Lys						
		85		90		95
Gly Ile Thr Leu Ala Val Val Thr Cys Arg Tyr His Phe Thr Trp Pro						
	100		105		110	
Asn Thr Ser Pro Pro Ala Pro Glu Thr Thr Met His Pro Ser Thr Ala						
	115		120		125	
Ser Pro Glu Thr Pro Glu Leu Asp Met Ala Val Pro Ala Leu Leu Asn						
	130		135		140	
Asn Arg Val His Gln Ser Val Thr Met Gly Glu Thr Val Ser Phe Leu						
	145		150		155	160
Cys Asp Val Val Gly Arg Pro Arg Pro Glu Ile Thr Trp Glu Lys Gln						
		165		170		175
Leu Glu Asp Arg Glu Asn Val Val Met Arg Pro Asn His Val Arg Gly						
	180		185		190	
Asn Val Val Val Thr Asn Ile Ala Gln Leu Val Ile Tyr Asn Ala Arg						
	195		200		205	
Leu Gln Asp Ala Gly Ile Tyr Thr Cys Thr Ala Arg Asn Val Ala Gly						
	210		215		220	
Val Leu Arg Ala Asp Phe Pro Leu Ser Asp Gly Gln Gly Ser Ser Gly						
	225		230		235	240
Met Gln Pro Ala Ser Glu Ser Ser Pro Asn Gly Thr Ala Phe Pro Ala						
		245		250		255
Ala Glu Cys Leu Lys Pro Pro Asp Ser Glu Asp Cys Gly Glu Glu Gln						
	260		265		270	
Thr Arg Trp His Phe Asp Ala Gln Ala Asn Asn Cys Leu Thr Phe Thr						
	275		280		285	
Phe Gly His Cys His Arg Asn Leu Asn His Phe Glu Thr Tyr Glu Ala						
	290		295		300	
Cys Met Leu Ala Cys Met Ser Gly Pro Leu Ala Ala Cys Ser Leu Pro						
	305		310		315	320
Ala Leu Gln Gly Pro Cys Lys Ala Tyr Ala Pro Arg Trp Ala Tyr Asn						

	325		330		335
Ser Gln Thr Gly Gln Cys Gln Ser Phe Val Tyr Gly Gly Cys Glu Gly					
	340		345		350
Asn Gly Asn Asn Phe Glu Ser Arg Glu Ala Cys Glu Glu Ser Cys Pro					
	355		360		365
Phe Pro Arg Gly Asn Gln Arg Cys Arg Ala Cys Lys Pro Arg Gln Lys					
	370		375		380
Leu Val Thr Ser Phe Cys Arg Ser Asp Phe Val Ile Leu Gly Arg Val					
	385		390		395
					400
Ser Glu Leu Thr Glu Glu Pro Asp Ser Gly Arg Ala Leu Val Thr Val					
	405		410		415
Asp Glu Val Leu Lys Asp Glu Lys Met Gly Leu Lys Phe Leu Gly Gln					
	420		425		430
Glu Pro Leu Glu Val Thr Leu Leu His Val Asp Trp Ala Cys Pro Cys					
	435		440		445
Pro Asn Val Thr Val Ser Glu Met Pro Leu Ile Ile Met Gly Glu Val					
	450		455		460
Asp Gly Gly Met Ala Met Leu Arg Pro Asp Ser Phe Val Gly Ala Ser					
	465		470		475
					480
Ser Ala Arg Arg Val Arg Lys Leu Arg Glu Val Met His Lys Lys Thr					
	485		490		495
Cys Asp Val Leu Lys Glu Phe					
	500				

<210> 234
 <211> 89
 <212> PRT
 <213> Homo sapiens

<400> 234
 Met Phe Leu Phe Leu Leu Gln Pro Pro Pro Ser Ser Leu Ser Pro Leu
 1 5 10 15
 Leu Pro Pro Ser Leu Pro Ala Phe Ser Ser Ser Phe Ile Ser Pro Ala
 20 25 30

Thr Lys Gln Ile Pro Gly Leu Leu Ser Asp Leu Cys Pro Arg Lys Pro
 35 40 45

Val Ala Tyr Glu Ser Thr Pro Ser Ile Arg Gln Lys Leu Gln Thr Val
 50 55 60

Val Ser Pro Ala Glu Gly Cys Val Trp Gly Pro Trp Asp Glu Gly Ile
 65 70 75 80

Cys Val Gly Ala Leu Arg Thr Gly Gln
 85

<210> 235
 <211> 29
 <212> PRT
 <213> Homo sapiens

<400> 235
 Met Gly Gly Ala Leu Leu Pro Pro Asp Arg Asp Glu Ser Pro Arg Tyr
 1 5 10 15

Leu Leu Asn Leu Cys Asn Thr Pro Ala Gly Lys Leu Gly
 20 25

<210> 236
 <211> 38
 <212> PRT
 <213> Homo sapiens

<400> 236
 Met Pro Ser Leu Ser Glu Ser Ile Leu Leu Ser Ser Glu Val Cys Asp
 1 5 10 15

Trp Thr Lys Leu Ser Thr Ile Phe Ser Ser Ala Asn Asn Leu Leu Leu
 20 25 30

Ile Cys Cys Lys Val Ser
 35

<210> 237
 <211> 33
 <212> PRT
 <213> Homo sapiens

<400> 237

Met Leu Pro Ser Gly Val Lys Lys Phe Phe Val Asp Arg Ala Phe Glu
 1 5 10 15

Leu Arg Ser Phe Lys Tyr Thr Thr Asp Val Pro Leu Arg Glu Thr Asp
 20 25 30

Leu

<210> 238

<211> 88

<212> PRT

<213> Homo sapiens

<400> 238

Met Gln Ala Ser Pro Leu Gln Ile Arg Gln Asn Pro Ala Leu Phe Leu
 1 5 10 15

Val Met Thr Phe Pro Thr Ala Arg Gly His Lys Ser Met Ile Gln His
 20 25 30

Tyr Arg Asn Pro Pro Thr Ser Arg Lys Val Ser Thr Thr His Lys Asp
 35 40 45

Ser His Val His Ala Asp Thr Lys Thr His Phe Arg Glu Glu Ala Pro
 50 55 60

Arg His Ser Leu Lys Pro Gln Leu Gly Thr Phe Leu His Asp Asn Ser
 65 70 75 80

Ser Ala Ser Leu Gly Gln Cys Asn
 85